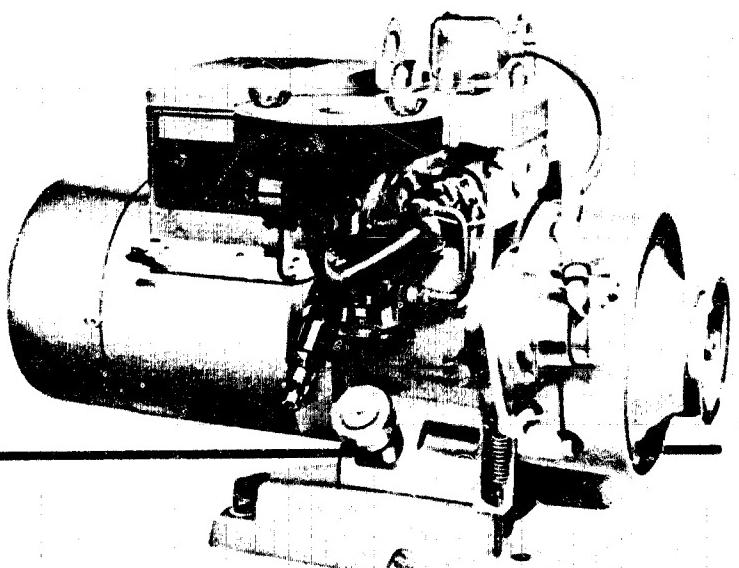


The following catalog
has gaps in its page
numbers, or doesn't
have any numbers.

We have chosen to
leave the page
numbering in the
order that Acrobat
assigns it.

Parts Manual

**Marine GenSet
MAJ**



933-0220

3-82 (SPEC A-S)

REPLACES

10-78 (SPEC A-R)

Printed in U.S.A.

GENERAL INFORMATION

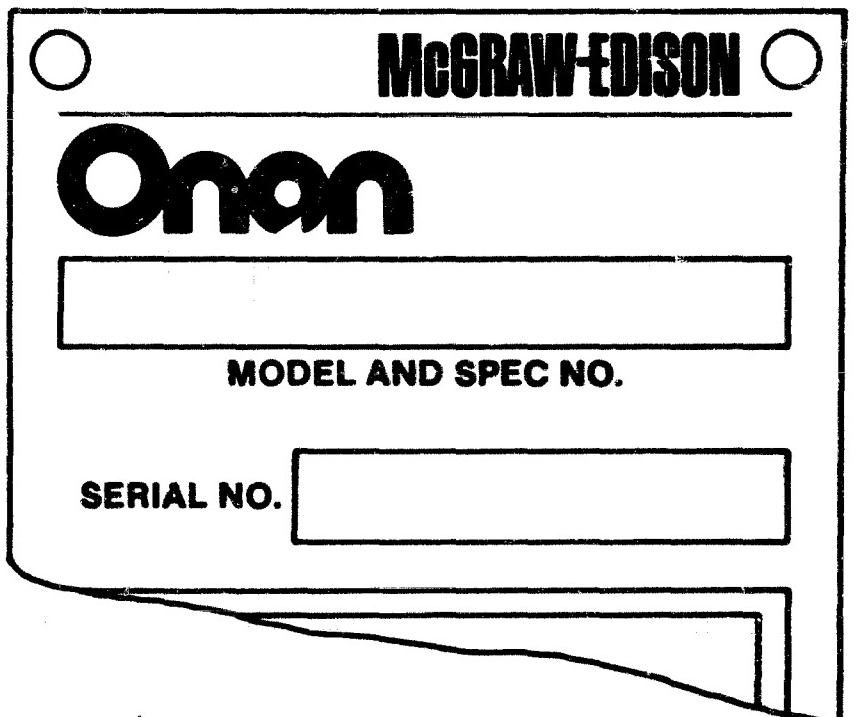
INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.



For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de propósito, ya que bastante confusión resultó de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

INDEX

	LOCATION
GENERATOR SET SECTION	
GENERATOR SET DATA TABLE	A4
Air Cleaner - Flame Arrester	B10, B11
Anti-flicker Assembly	A14
Anti-flicker Assembly - Special Parts Section	C5
Block Assembly, Cylinder	A6, A7
Camshaft	A9
Carburetor Parts (146-0093)	B4
Carburetor Parts (142-0311)	B5
Carburetor Parts (143-0075)	B6
Choke Parts, Electric	A12
Choke Parts, Electric - Special Parts Section	C5
Control Assembly	C2, C3
Control Assembly - Special Parts Section	C5
Cooling System	B12, B13
Crankshaft	A9
Engine Assembly, Internal	A8, A9
Exhaust System	B1
Fuel System	B2, B3
Gearcase Assembly	A10, A11
Generator Assembly - 2 Pole Type (Key 4,5,6)	C1
Generator Assembly - 4 Pole Type (Key 1,2,3)	B14
Generator Assembly - Special Parts Section	C5
Governor	A10, A11
Ignition System	B8, B9
Mobile Communications Sets	C5
Mounts, Vibration	A13
Oil System	A13
Piston and Rod Assembly	A5
Pump Parts, Fuel	A12
Pump Parts, Water	B13
Service Kits and Miscellaneous	C4
Special Parts Section	C5
Switch, High Coolant Temperature	B13
Thermostat	B13
Utility Sets	C5
Valves, Exhaust/Intake	A9
OPTIONAL EQUIPMENT SECTION	
Aqualift Exhaust System - Optional Equipment Section	D5
Carburetor Parts (143-0160) - Optional Equipment Section	D3
Carburetor Parts (146-0091) - Optional Equipment Section	D4
Fuel System (Gas) - Optional Equipment Section	D2

INTRODUCTION

This catalog applies to the standard MAJ Generating Sets as listed below. Parts are arranged in groups of related items and are identified by a reference number. Parts illustrations are typical. Using the Model and Spec No. from the Onan nameplate, select the Parts Key No. (1, 2, etc., in the last column) that applies to your unit. This Parts Key No. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left generating set sides are determined by facing the engine end (front) of the unit.

£ MODEL AND SPECIFICATION	ELECTRICAL DATA			PARTS KEY NO.
	WATTS	VOLTS	HERTZ	
1.0MAJ-1R/*	1000	120	60	1
1.0MAJ-2R/*	1000	240	60	1
.5MAJ-212R/*	500	12DC		2
.6MAJ-212R/*	600	12 DC		2
1.5MAJ-224R/*	1500	24DC		3
1.5MAJ-232R/*	1500	32 DC		3
2.5MAJ-1R/*	2500	120	60	4
2.5MAJ-2R/*	2500	240	60	4
2.0MAJ-52R/*	2000	240	50	5
2.0MAJ-53R/*	2000	120/240	50	5
2.5MAJ-3R/*	2500	120/240	60	5
2.5MAJ-53R/*	2500	120/240	50	6
3.0MAJ-1R/*	3000	120	60	6
3.0MAJ-2R/*	3000	240	60	6
"Utility" (or "Mobile Communications") Models: See Special Parts Section				

NOTES: Hertz is a unit of frequency equal to one cycle per second.

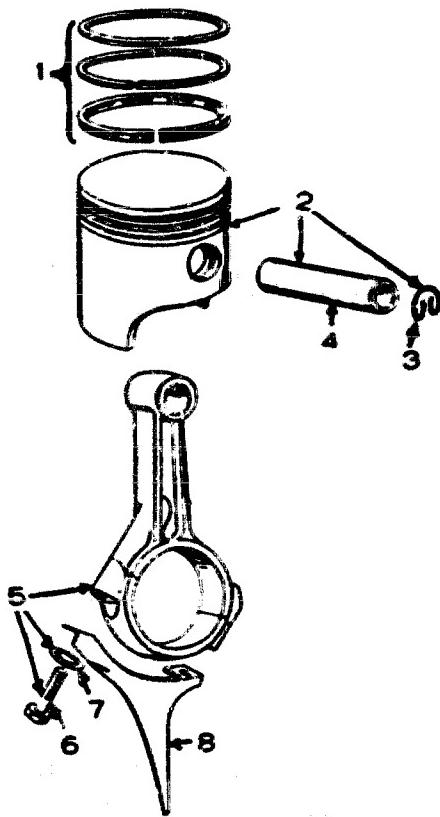
£ - New model designation shown, begin during 1969. Previous designations did not use a decimal in the kW rating. EXAMPLE: 1.0MAJ was formerly 1 MAJ and 1.5 MAJ was formerly 105 MAJ.

* - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

STANDARD PARTS SECTION

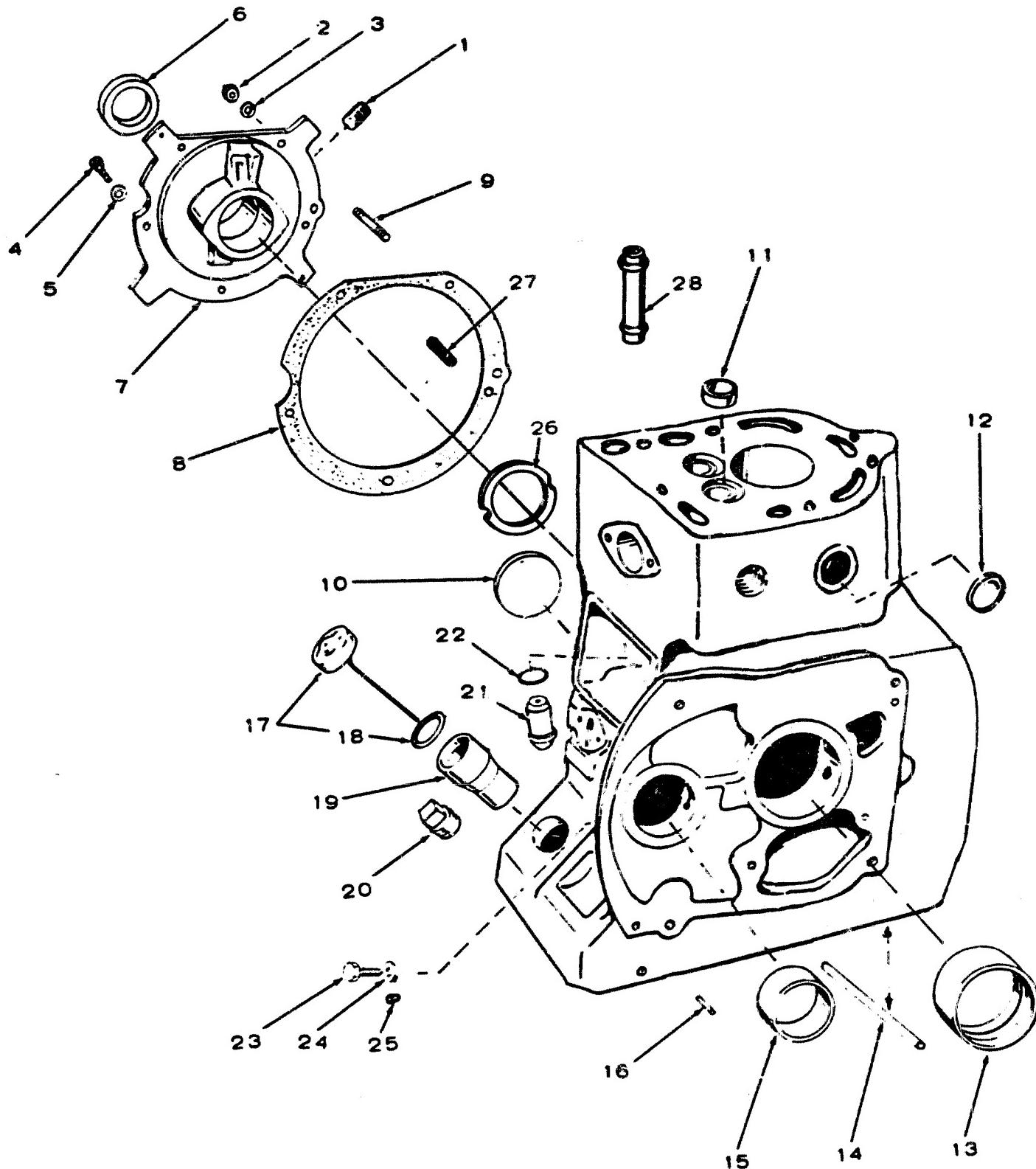
This section contains the illustrated parts listing for the standard generator sets listed in the Data Table.

PISTON AND ROD ASSEMBLY



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET, PISTON		
	113-0175	1	Standard
	113-0175-10	1	.010" Oversize
	113-0175-20	1	.020" Oversize
	113-0175-30	1	.030" Oversize
	113-0175-40	1	.040" Oversize
2	PISTON (Includes Retaining and Wrist Pins)		
	112-0177	1	Standard
	112-0177-05	1	.005" Oversize
	112-0177-10	1	.010" Oversize
	112-0177-20	1	.020" Oversize
	112-0177-30	1	.030" Oversize
	112-0177-40	1	.040" Oversize
3	112-0013	2	Ring, Retaining
4	112-0063	1	Pin, Wrist - Piston
5	ROD, CONNECTING (Includes Hardware)		
	114-0095	1	Standard
	114-0095-10	1	.010" Undersize
	114-0095-20	1	.020" Undersize
	114-0095-30	1	.030" Undersize
6	114-0023	2	Bolt, Place (Special)
7	854-0014	2	Washer, Lock - Internal Tooth (1/4")
8	114-0089	1	Dipper, Oil - Key 1.2.3

CYLINDER BLOCK ASSEMBLY



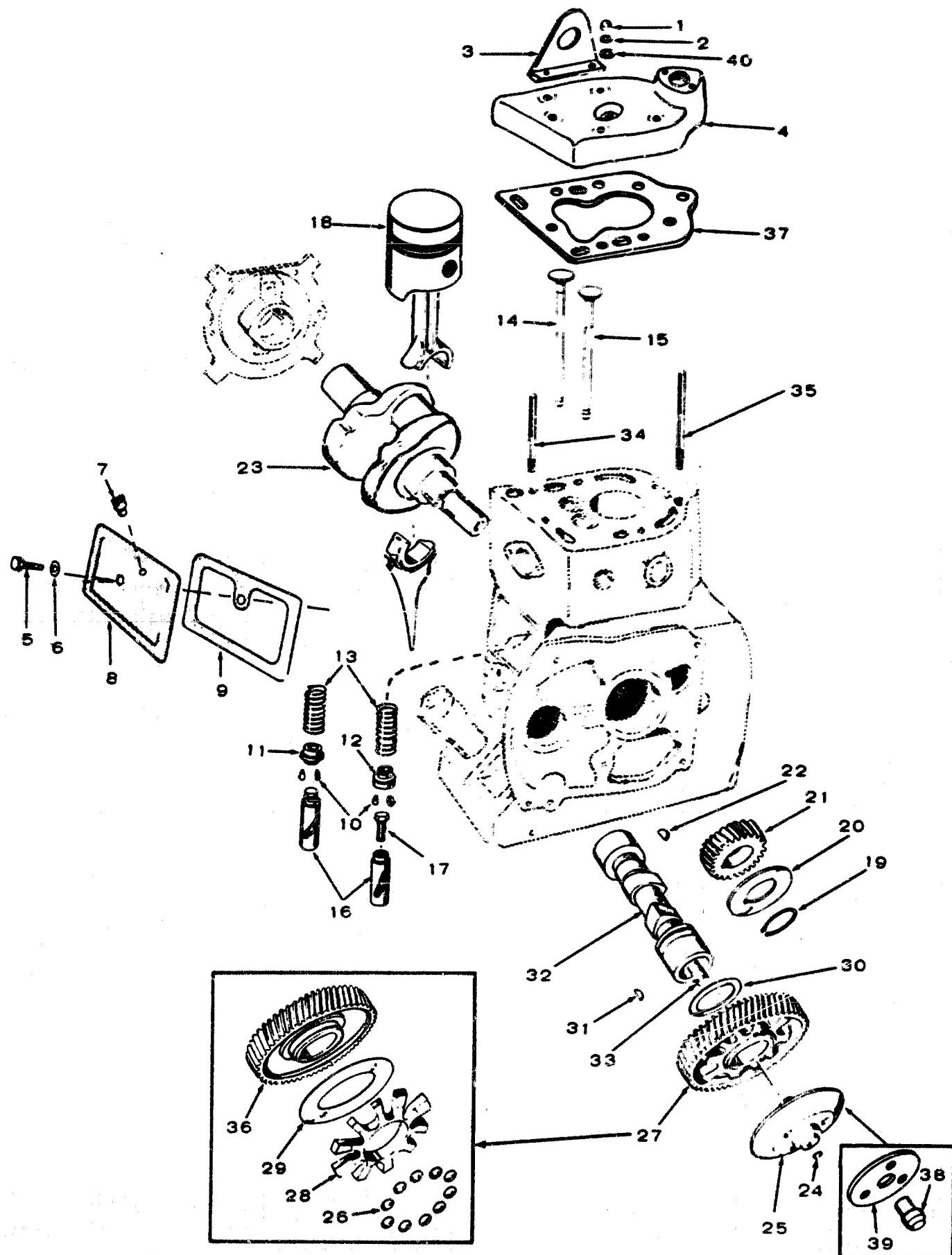
CYLINDER BLOCK ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
			BLOCK ASSEMBLY, CYLINDER				+BEARING, CRANKSHAFT - PRECISION	
	110-1516	1	Key 1,2,3 (Splash Lubrication) (Includes Parts Marked *)		101-0290	2	Standard	
	110-1257	1	Key 4,5,6 (Pressure Lubrication) (Includes Parts Marked +)		101-0290-02	2	.002" Undersize	
1	505-0008	1	+Plug, Pipe - Slotted Drive (1/8 NPT) - Key 4,5,6		101-0290-10	2	.010" Undersize	
2	NUT, HEX (Special)				101-0290-20	2	.020" Undersize	
	110-0445	5	*Key 1,2,3		101-0290-30	2	.030" Undersize	
	110-0445	4	+Key 4,5,6					
3	850-0045	5	*Washer, Lock - Spring (5/16")	13			*BEARING, CRANKSHAFT - PRECISION	
4	800-0028	1	Screw, Cap - Hex Head (5/16-18 x 1")		101-0450	2	Standard	
5	526-0065	1	Washer, Flat - Copper (21/64" ID x 9/16" OD 1/16" Thk)		101-0450-02	2	.002" Undersize	
6	509-0041	1	Seal, Oil - Crankshaft (Included in 168-0069 Overhaul Gasket Kit)		101-0450-10	2	.010" Undersize	
7	REAR BEARING PLATE				101-0450-20	2	.020" Undersize	
	101-0316	1	*Key 1,2,3		101-0450-30	2	.030" Undersize	
	101-0404	1	+Key 4,5,6					
8	KIT, GASKET			14	TUBE, OIL LINE			
	101-0115	1	*Key 1,2,3		120-0386	1	*Key 1,2,3 (5-25/32" Lg)	
	101-0257	1	+Key 4,5,6		120-0387	1	+Key 4,5,6 (4-5/16" Lg)	
9	STUD			15	101-0367	2	+*Bearing, Camshaft	
	520-0114	5	*Key 1,2,3		16	PIN, DOWEL		
	520-0526	4	+Key 4,5,6		516-0012	2	+Key 4,5,6	
10	517-0048	1	+*Plug, Expansion (1-5/8" DIA)		516-0011	2	*Key 1,2,3	
11	+INSERT, VALVE SEAT - EXHAUST			17	123-0824	1	Cap & Indicator, Oil (Includes Gasket)	
	110-0826	1	Standard		18	123-0191	1	Gasket - Indicator Cap
	110-0826-02	1	.002" Oversize		19	123-0313	1	+Tube, Oil Fill - Key 4,5,6
	110-0826-05	1	.005" Oversize		20	505-0130	1	Plug, Pipe - Square Head (3/4 NPT) Used on Some Spec A Models
	110-0826-10	1	.010" Oversize		21	GIJIDE, VALVE		
	110-0826-25	1	.025" Oversize		110-0441	2	+Key 4,5,6	
11	*INSERT, VALVE SEAT - EXHAUST				110-0902	4	*Key 1,2,3	
	110-0872	1	Standard		22	110-0068	1	Gasket, Intake Valve Guide
	110-0872-02	1	.002" Oversize		23	800-0003	1	Screw, Cap - Hex Head (1/4-20 x 1/2")
	110-0872-05	1	.005" Oversize		24	526-0063	1	Washer, Flat - Copper (17/64" ID x 7/16" OD x 1/32" Thk)
	110-0872-10	1	.010" Oversize		25	517-0003	1	+Plug, Oil Line Key 4,5,6 (9/32" DIA x 1/4")
	110-0872-25	1	.025" Oversize		26	104-0575	2	*Washer, Thrust - Crankshaft
12	517-0041	1	+Plug, Expansion (1-1/8" DIA)		27	516-0072	2	*Pin, Main Bearing Stop - Key 1,2,3
					28	123-0129	1	*Tube, Breather - Cup Assembly - Key 1,2,3

* - Parts Included in 110-1516 Cylinder Block Assembly

+ - Parts Included in 110-1257 Cylinder Block Assembly

INTERNAL ENGINE ASSEMBLY

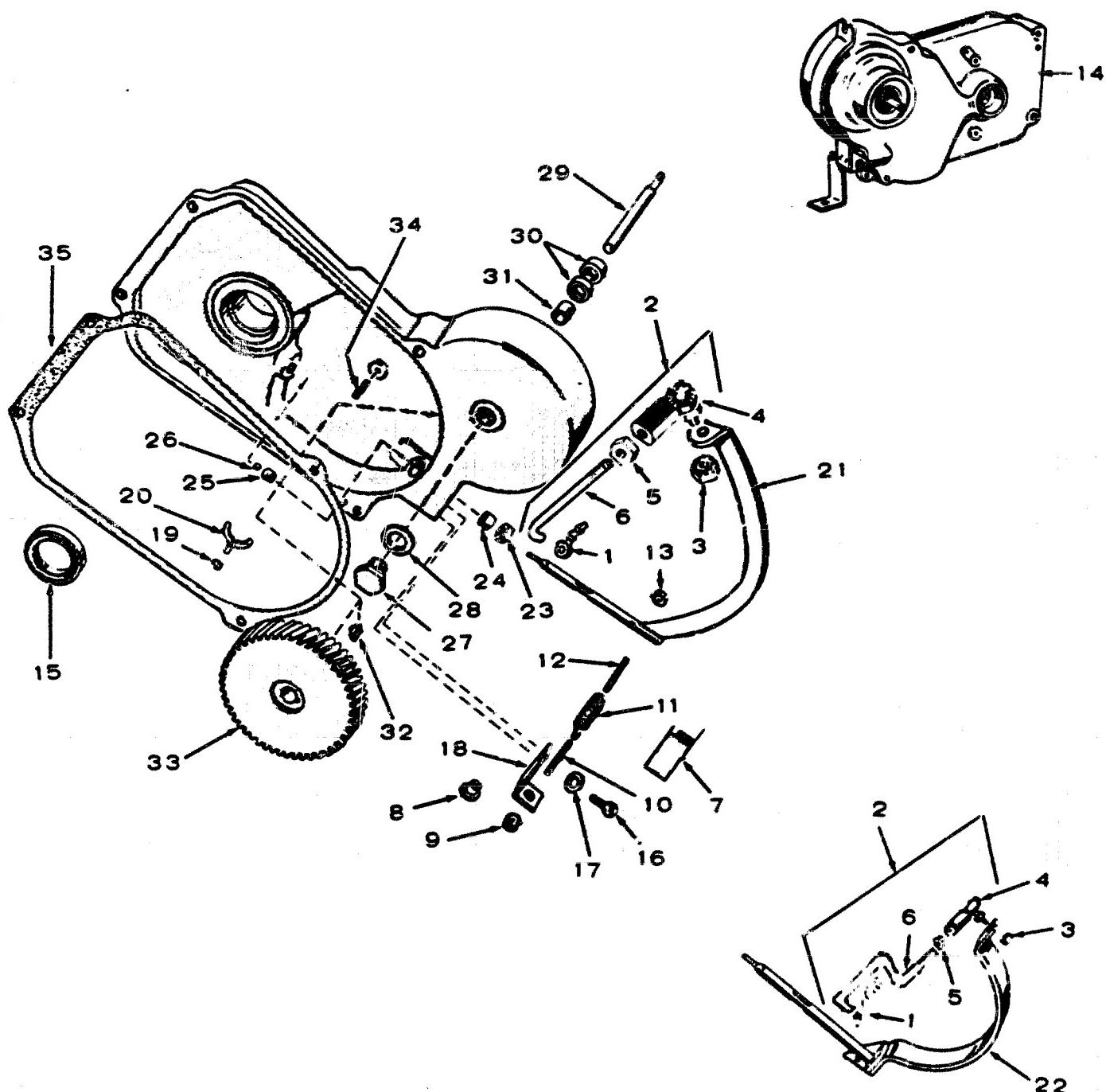


INTERNAL ENGINE ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	869-0002	5	Nut, Acorn (5/16-24)	26	BALL, FLY - GOVERNOR		
2	526-0065	5	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16" Thk)	510-0015	10	Key 1,2,3	
3	405-1039	1	Bracket, Lifting	510-0015	5	Key 4,5,6	
4	110-0939	1	Head, Cylinder	27	GEAR, CAMSHAFT - (Includes Spacer and Plate)		
5	800-0015	1	Screw, Cap - Hex Head (1/4-20 x 3")	105-0220	1	Used Up to Serial #668253 NOTE: No Longer Available Order #105-0377 For Replacement	
6	526-0063	1	Washer, Flat - Copper (17/64" ID x 7/16" OD x 1/32" Thk)	105-0377	1	Used Beginning with Serial #668254 (Includes Parts Marked †)	
7	123-0486	1	Valve, Breather	28	SPACER		
8	110-0942	1	Cover - Valve Compartment	150-0085	1	Used up to Serial #668253 NOTE: No Longer Available Order Gear #105-0377	
9	110-0832	1	Gasket				For Complete Replacement
10	110-0006	4	Lock, Valve Spring				
11	110-0558	1	Retainer, Valve Spring Key 1-5	150-1257	1	†Used Beginning with Serial #668254	
12	ROTATOR, VALVE			29	150-0077	1	†Plate
	110-0540	1	Exhaust - All Keys	30	105-0004	1	Washer, Thrust - Camshaft
	110-0540	1	Intake - Key 6	31	515-0001	1	Key, Woodruff
13	110-0609	2	Spring, Valve	32	105-0139	1	Camshaft (Includes Center Pin) (Includes Parts Marked *)
14	110-0828	1	Valve, Intake	33	150-0075	1	*Pin, Camshaft
15	110-0827	1	Valve, Exhaust	34	520-0143	5	Stud (5/16-24 x 5/16-18 x 2 - 11/32")
16	TAPPET, VALVE - Includes Adjusting Screw			35	520-0535	2	Stud (5/16-24 x 5/16-18) x 3-7/8")
	115-0006	2	Standard	36	105-0028	1	†Gear, Camshaft (No Longer Available - Order #105-0377 For Replacement)
	115-0006-05	2	.005" Oversize	37	110-0940	1	Gasket, Cylinder Head
17	115-0049	2	Screw, Cap - Hex Head (Special) (Tappet Adjusting)	38	150-1519	1	△Hub
18		1	Piston and Rod Assembly (See Separate Group For Components)	39	150-1520	1	△Cup and Bushing
19	518-0012	1	Ring, Retaining	40	526-0122	3	Washer, Flat - Key 4,5,6 (11/32" ID x 23/32 OD x 10 Ga. Thk)
20	104-0050	1	Washer, Gear Retaining (Special)				
21	104-0048	1	Gear, Crankshaft				
22	515-0001	1	Key, Woodruff				
23	104-1276	1	Crankshaft (Kit)				
24	150-0078	1	Ring, Retaining				
25	150-1695	1	Cup, Governor (Kit) (Includes Parts Marked △)				

△ - Parts Included in 150-1695 Governor Cup Kit.
 * - Parts Included in 105-0139 Camshaft Assembly.
 † - Parts Included in 105-0377 Camshaft Gear Assembly

GOVERNOR - GEARCASE ASSEMBLY



GOVERNOR - GEARCASE ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	518-0004	1	Clip, Retaining - Rod End
2	LINKAGE ASSEMBLY		
	150-0662	1	Key 1,2,3 - Spec A-K (No Longer Available. Order Parts Marked Δ)
	150-0787	1	Key 4,5 - Spec A-K
	150-0767	1	Spec L Only - (No Longer Available. Order Parts Marked +)
	150-0787	1	Begin Spec M - All Specs
3	870-0131	1	+ Δ Nut, Hex With External Tooth Lockwasher (#10-32)
4	JOINT, BALL		
	150-0639	1	+ Δ Spec A-L (Replaceable by 150-0974)
	150-0874	1	Begin Spec M
5	870-0053	1	- Δ Nut, Hex (#10-32)
6	LINK. ROD - TO CARBURETOR THROTTLE LEVER		
	150-0663	1	Δ Key 1,2,3 - Spec A-K
	150-0766	1	+Spec L Only
	150-0786	1	Key 4,5 - Spec A-K
	150-0786	1	Begin Spec M - All Keys
7	150-0198	1	Cover, Governor Spring
8	150-0033	1	Nut, Knurled (Special) Spec A-L (Replaceable by 870-0131 Nut)
9	870-0131	1	Nut, Hex with External Tooth Lockwasher (#10-32) Begin Spec M
10	150-0213	1	Stud, Adjustment - Governor
11	150-0098	1	Spring - Governor
12	150-0177	1	Stud, Sensitivity - Governor
13	870-0053	1	Nut, Hex (#10-32)
14	GEARCASE ASSEMBLY (Includes Mtg Gasket) (Includes Parts Marked *)		
	103-0167	1	Key 1,2,3 - Spec A-K
	103-0211	1	Key 1,2,3 - Begin Spec L
	103-0211	1	Key 4,5,6
15	509-0012	1	*Seal, Oil - Crankshaft
16	815-0100	2	*Screw, Machine - Round Head (#10-32 x 1/2")
17	850-0030	2	*Washer, Lock - Spring (#10)
18	150-0156	1	*Bracket - Governor Spring
19	518-0129	1	*Ring, Retaining - Yoke
20	150-0620	1	*Yoke, Governor (Includes Retaining Ring)
21	*ARM AND SHAFT, GOVERNOR		
	150-0765	1	Key 4,5 - Spec A-K
	150-0765	1	Begin Spec L - All Keys
22	150-0843	1	*Arm and Shaft, Governor Key 1,2,3 - Spec A-K
23	509-0008	1	*Seal, Oil - Governor Shaft
24	510-0013	1	*Bearing, Needle - Governor Shaft
25	510-0008	1	*Bearing, Needle - Governor Shaft
26	510-0014	1	*Ball Bearing - Thrust
27	131-0041	1	*Plug, Hex Head - Pump Drive
28	131-0035	1	*Gasket
29	131-0047	1	*Shaft, Drive - Water Pump
30	509-0044	2	*Seal, Oil - Pump Drive Shaft
31	131-0051	1	*Bearing, Sleeve - Pump Drive Shaft
32	515-0116	1	*Key, Woodruff
33	131-0028	1	*Gear, Drive - Water Pump Shaft
34	516-0117	1	*Pin, Roll
35	103-0013	1	*Gasket - Gearcase Mounting

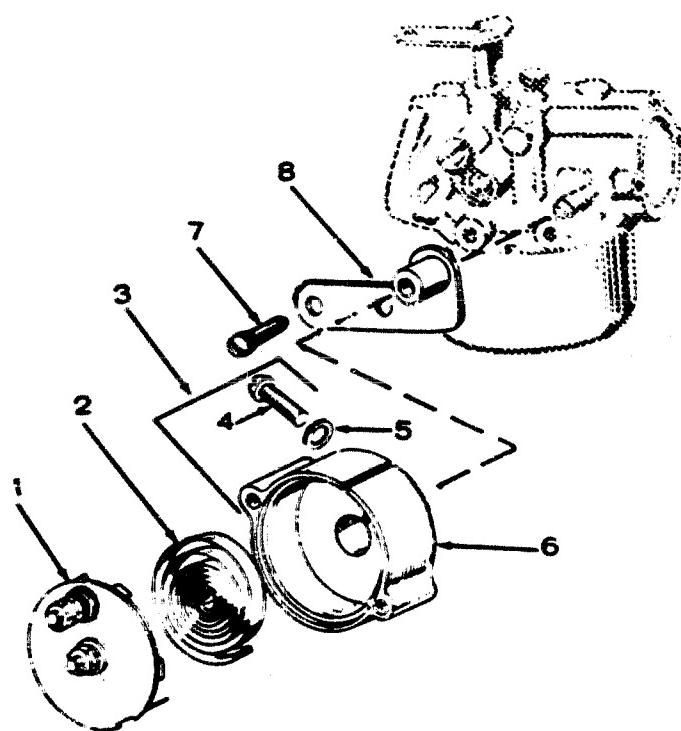
* - Parts Included in Gearcase Assembly.

+ - Parts Needed to Replace 150-0767 Governor Linkage.

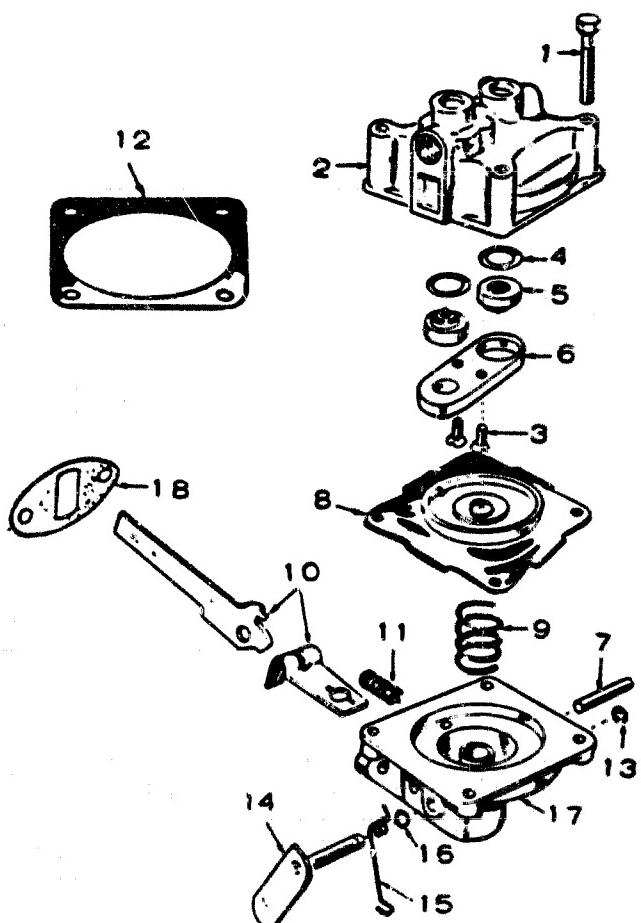
Δ - Parts Needed to Replace 150-0662 Governor Linkage.

ELECTRIC CHOKE PARTS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1 COVER ASSEMBLY - Includes Heating Element			
153-0114	1	Key 1 (24 Volt)	
153-0124	1	Key 2 (12 Volt)	
153-0114	1	Key 3 (24 Volt)	
153-0116	1	Key 3 (32 Volt)	
153-0330	1	Key 4.5 (40 Volt) Spec A through H	
153-0115	1	Key 4.5.6 (40 Volt) Begin Spec J	
2 153-0017	1	Element, Bi Metal	
3 153-0440	1	Housing Assembly	
4 815-0110	1	Screw, Machine - Round Head (#10-32 x 7/8")	
5 850-0030	1	Washer, Lock - Spring (#10)	
6 153-0058	1	Housing	
7 815-0190	2	Screw, Tapping - Round Head (#8-32 x 3/8")	
8 ADAPTER, MOUNTING - CHOKE			
153-0196	1	Key 4.5 - Spec A Through L	
153-0420	1	Begin Spec M	
		All Keys	



FUEL PUMP PARTS (149-0693)

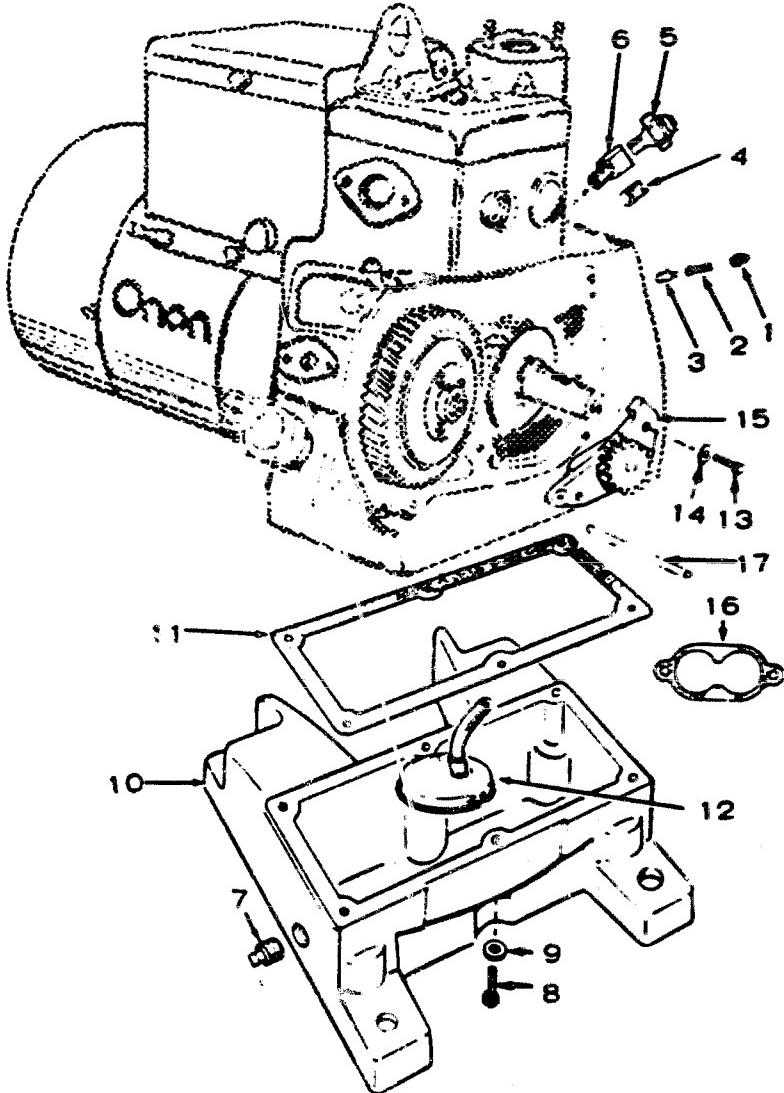


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
149-0693	1	£	Pump, Fuel
149-0526	1	£	Kit, Repair (Includes Parts Marked £)
1 815-0148	4	1	Screw, Machine - Hex Head Slotted, Zinc Plated (#8-32 x 7/8")
2 815-0147	1	1	Body, Pump - Upper
3 815-0147	2	2	Screw, Tapping - Oval Head, Cross Recessed Drive (#6-32 x 5/8")
4 149-0095	2	1	*Gasket - Check Valve
5 149-0096	2	1	*Valve, Check
6 149-0539	1	1	Retainer, Valve
7 516-0113	1	1	Pin, Straight Headless (0.177" DIA x 0.859" Lg)
8 149-0582	1	1	*Diaphragm
9 149-0672	1	1	*Spring
10 149-0710	1	1	Arm and Link Set
11 149-0672	1	1	*Spring
12 149-0858	1	1	*Gasket - Air Lock Inhibiting
13 518-0129	1	1	Ring, Retaining
14 149-0551	1	1	Lever, Priming
15 149-0404	1	1	Spring
16 509-0065	1	1	Seal, O Ring
17		1	Body, Pump - Lower
18 149-0003	1	1	*Gasket - Pump Mounting

* - Included in Repair Kit.

£ - No Longer Available. For Replacement Order
Kit #149-1784.

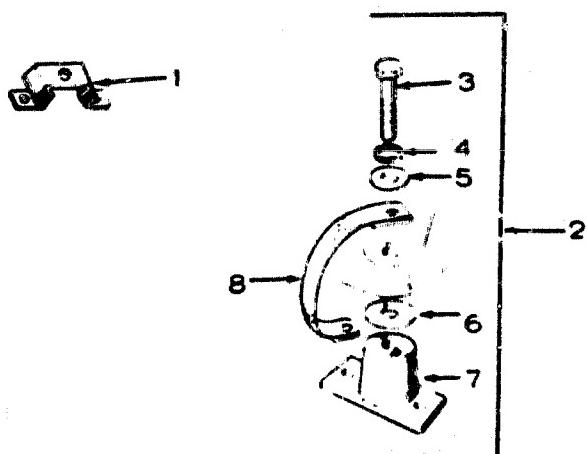
OIL SYSTEM



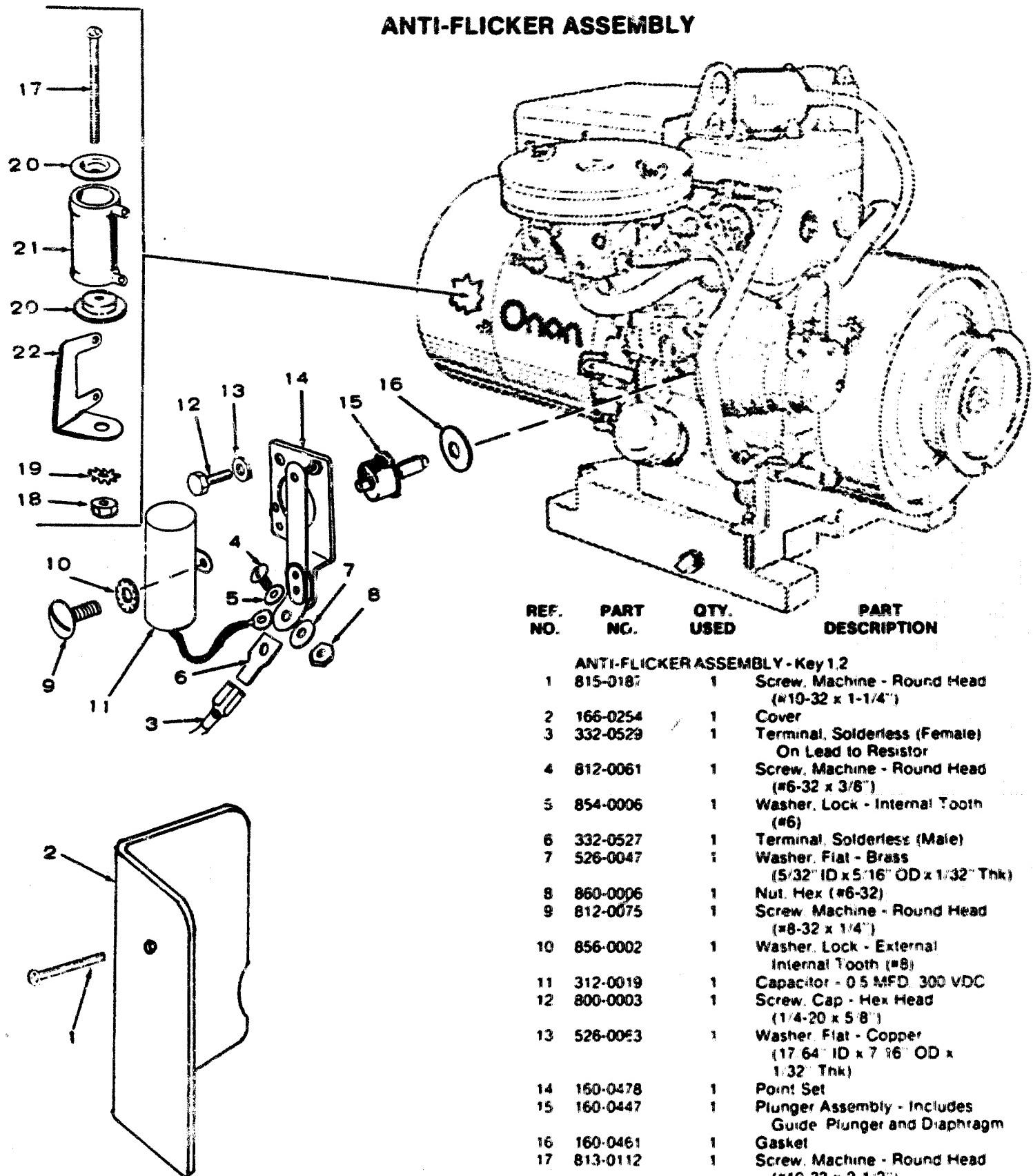
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	505-0274	1	Plug, Pipe - Socket Drive (1/8 NPT)
2	120-0140	1	Spring - Oil By Pass
3	120-0012	1	Plunger - Oil By Pass
4	505-0008	1	Plug, Pipe - Slotted Drive - Key 4.5
5	309-0237	1	Switch, Low Oil Pressure Key 6 (Useable on Key 4.5)
6	502-0053	1	Elbow, Pipe - 45 Deg. Key 6 (Useable on Key 4.5)
7	502-0053	1	Elbow, Pipe - 45 Deg. Key 6 (Useable on Key 4.5)
8	505-0110	1	Plug, Pipe - Square Head (3/8 NPT)
9	SCREW, CAP - HEX HEAD		
10	800-0051	3	3/8-16 x 1-1/4"
11	800-0053	3	3/8-16 x 1-3/4"
12	850-0050	6	Washer, Lock - Spring (3/8")
13	102-0439	1	Base, Oil
14	102-0018	1	Gasket - Oil Base
15	120-0571	1	Cup, Intake - Oil Pump (Key 4.5.6)
16	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1") Key 4.5.6
17	850-0040	2	Washer, Lock - Spring (1/4) - Key 4.5.6
	120-0394	1	Pump, Oil - Key 4.5.6
	120-0151	1	Kit, Gasket - Oil Pump
	120-0261	1	Tube, Oil - Key 4.5.6

VIBRATION MOUNTS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	MOUNT, VIBRATION - Key 1 Only		
	402-0224	2	Engine End - For Replacement Order 402-0265 Kit
	402-0225	2	Generator End - For Replacement Order 402-0261 Kit
2	402-0265	1	Kit, Vibration Mounts Key 2-6 (Includes Items 3-7)
3	114-0022	4	Screw, Cap - Hex Head (Special)
4	850-0046	4	Washer, Lock - Spring (5/16")
5	526-0041	4	Washer, Flat (21/64" ID x 1" OD x 1/16" Thk)
6	526-0076	4	Washer, Flat (11/32" ID x 1-1/2" OD x 1/16" Thk)
7	402-0251	4	Mount, Vibration
8	402-0389	4	Strap, Restraining Key 2-6

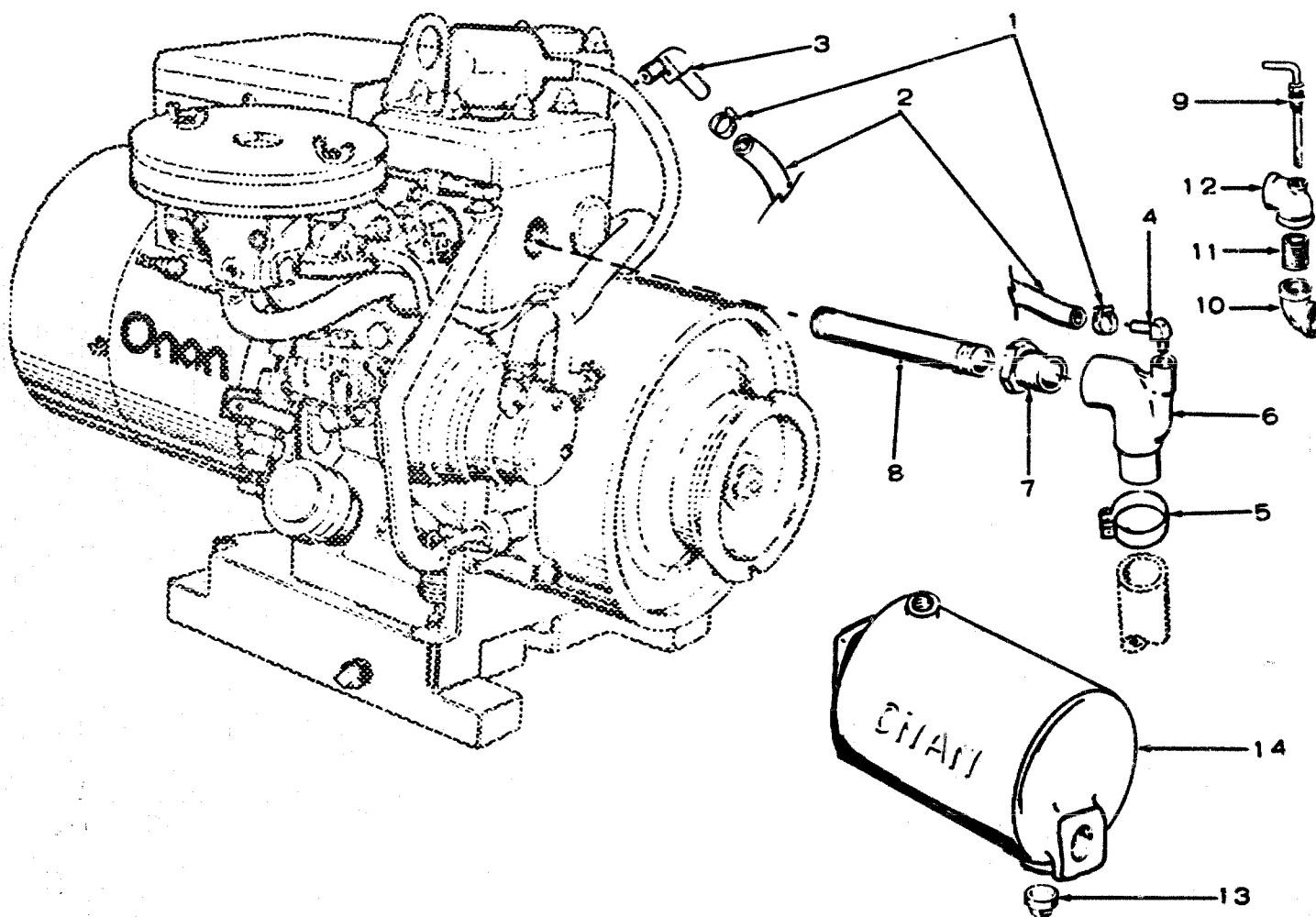


ANTI-FLICKER ASSEMBLY



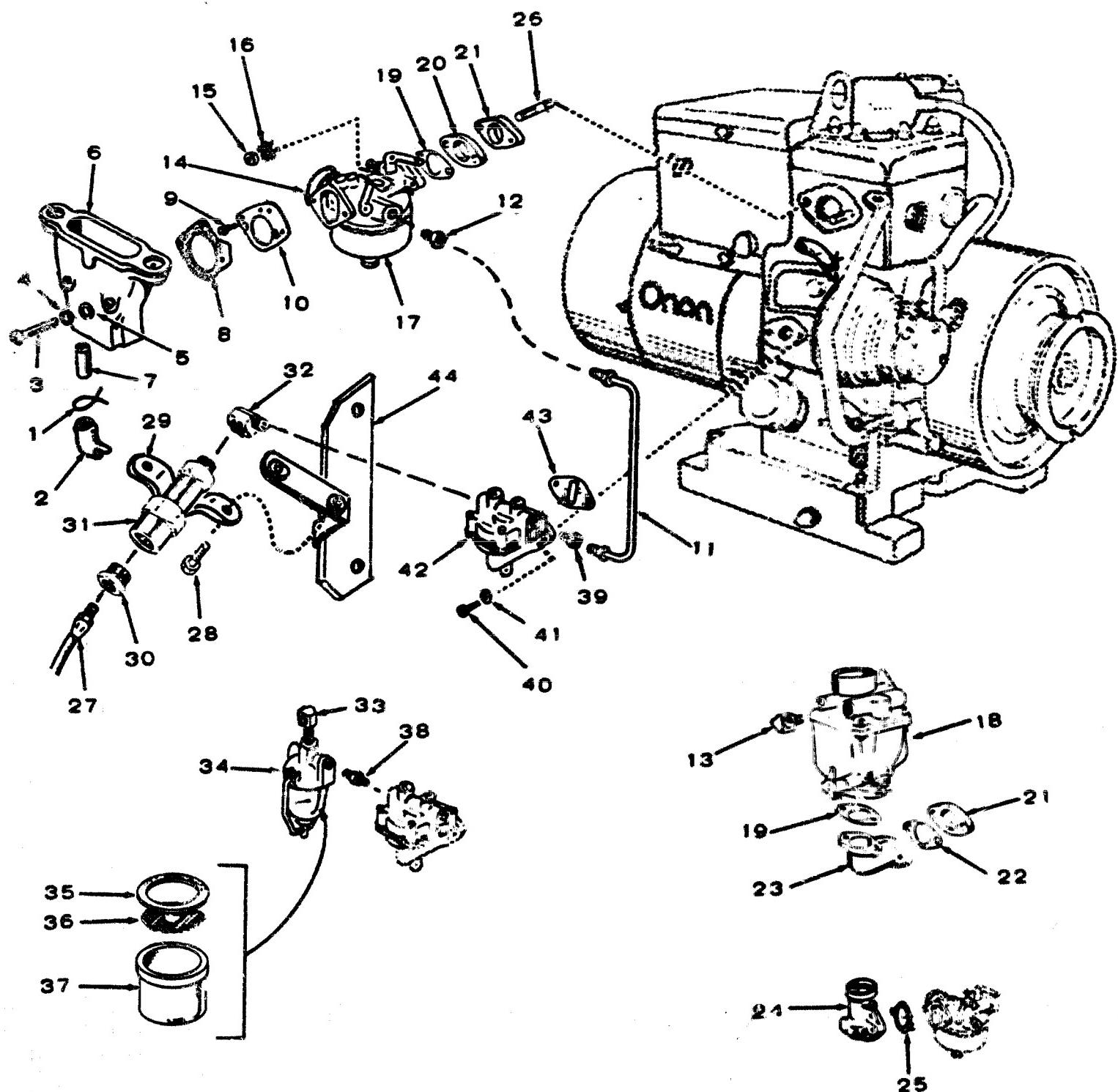
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
ANTI-FLICKER ASSEMBLY - Key 1.2			
1	815-0187	1	Screw, Machine - Round Head (#10-32 x 1-1/4")
2	166-0254	1	Cover
3	332-0529	1	Terminal, Solderless (Female) On Lead to Resistor
4	812-0061	1	Screw, Machine - Round Head (#6-32 x 3/8")
5	854-0006	1	Washer, Lock - Internal Tooth (#6)
6	332-0527	1	Terminal, Solderless (Male)
7	526-0047	1	Washer, Flat - Brass (5/32" ID x 5/16" OD x 1/32" Thk)
8	860-0006	1	Nut, Hex (#6-32)
9	812-0075	1	Screw, Machine - Round Head (#8-32 x 1/4")
10	856-0002	1	Washer, Lock - External Internal Tooth (#8)
11	312-0019	1	Capacitor - 0.5 MFD. 300 VDC
12	800-0003	1	Screw, Cap - Hex Head (1/4-20 x 5/8")
13	526-0053	1	Washer, Flat - Copper (17.64" ID x 7 1/16" OD x 1/32" Thk)
14	160-0478	1	Point Set
15	160-0447	1	Plunger Assembly - Includes Guide Plunger and Diaphragm Gasket
16	160-0461	1	Screw, Machine - Round Head (#10-32 x 2-1/2")
17	813-0112	1	Nut, Hex (#10-32)
18	870-0053	1	Washer, Lock - External Tooth (#10)
19	853-0008	1	Washer, Dished - Resistor Centering
20	304-0014	2	Spec A - G (2.5 Ohm, 25 Watt)
21	RESISTOR, FIXED, WIRE WOUND 304-0321 304-0168 304-0304	1	Spec H (1.5 Ohm, 25 Watt)
22		1	Bracket, Mounting - Resistor

EXHAUST SYSTEM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503-0465	2	Clamp, Hose
2	503-0633	1	Hose, Rubber (1/2" ID)
3	502-0304	1	Elbow, Hose - Brass (1/4 NPT x 1/2" Hose)
4	502-0302	1	Elbow, Hose - Brass (3/8 NPT x 1/2" Hose)
5	503-0365	1	Clamp, Hose
6	155-1058	1	Elbow, Exhaust with Injection Port
7	505-0297	1	Bushing, Reducer (1-1/4 NPT to 3/4" NPT)
8	505-0268	1	Nipple, Pipe (3/4 NPT x 9" Lg) (NOTE: Length of Nipple may vary with Installation Requirements)
9	154-0894	1	Tube, Water Injection - Used on Some Early Models
10	505-0493	1	Elbow Pipe (1-1/4 NPT x 90°) Galv.
11	505-0625	1	Nipple, Pipe - Close (1-1/4 NPT x 1-5/8") Galv.
12	505-0485	1	Elbow, Pipe With Injection Tube Port Used on some early models
13	505-0110	1	Plug, Pipe - Square Head (3/8" NPT) Muffler Drain
14	155-0234	1	Muffler, Exhaust - Marine (With Water Injection Tube Port)

FUEL SYSTEM



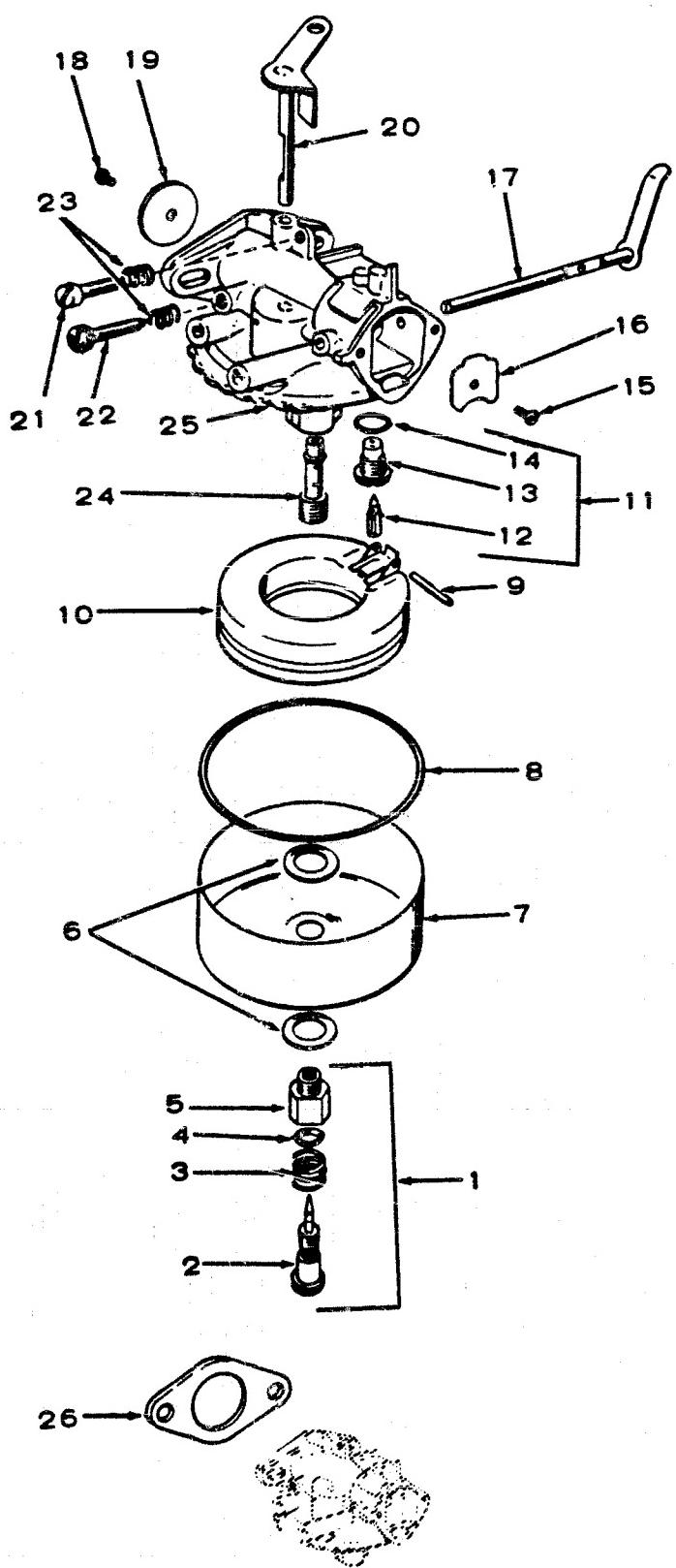
FUEL SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503-0170	2	Clamp, Loop - Breather Hose	24	140-0446	1	Adapter, Intake - Key 4,5 Spec A-K
2	BREATHER HOSE			25	145-0111	1	Gasket, Key 4.5 - Spec A-K
	503-0557	1	Begin Spec L - All Keys (7/16 ID x 4-3/32" Long)	26	STUD	2	Begin Spec M (1/4-28 x 1/4-20 x 1-1/2")
	503-0736	1	Key 4.5 - Spec A-K (5/16 ID x 6-3/4" Long)	520-0632			Key 4.5 - Spec A-L (1/4-28 x 1/4-20 x 1-9/16")
	503-0299	1	Key 1.2,3 - Spec A-K (5/16 ID x 7-1/2" Long)	520-0363			Key 1,2,3 - Spec A-L (1/4-28 x 1/4-20 x 1-3/16")
3	813-0108	2	Screw, Machine - Round Head (#10-32 x 1-1/2")	520-0024		2	Line, Fuel - Flexible (36")
4	850-0030	2	Washer, Lock - Spring (#10)	27	501-0009	1	Screw, Cap - Locking Hex Head
5	526-0008	2	Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thk)	28	821-0005	2	(#10-32 x 1/2")
6	ADAPTER (Includes Spark Arresting Breather Tube)			29	149-1561	1	Clamp, Retaining - Fuel Filter Begin Spec R
	140-0932	1	Begin Spec M	30	502-0029	1	Bushing, Pipe - Brass (1/4 NPT x 1/8 NPT) - Begin Spec R - S/N G 770248154
	140-0856	1	Spec L Only				
7	123-0893	1	Tube, Breather - Spark Arresting (Includes with Adapters)	31	149-1545	1	Filter, Fuel - Begin Spec R S/N G 770248154
8	GASKET			32	502-0099	1	Elbow, Pipe - Street - Begin Spec R S/N G 770248154 (1/4 NPT x 1/8 NPT)
	140-0921	1	Begin Spec M	33	502-0020	1	Elbow, Pipe - Street Spec A-R - Through S/N G 770248153
	140-0585	1	Spec L Only	34	149-0282	1	Filter, Fuel - Spec A-R Through S/N G 770248153
9	814-0225	2	Screw, Machine - Flat Head SST (#8-32 x 3-8")	35	149-0149	1	Gasket - Filter Bowl
10	MOUNTING PLATE, ADAPTER			36	149-0202	1	Screen - Fuel Filter
	140-0979	1	Begin Spec M	37	149-0313	1	Bowl, Metal - Fuel Filter
	140-0856	1	Spec L Only	38	502-0082	1	Nipple, Hex - Spec A-R Through S/N G 770248153
11	LINE, FUEL			39	502-0003	1	Connector, Pipe - Inverted Male
	149-1110	1	Begin Spec M	40	815-0111	2	Screw, Machine - Fillister (1/4-20 x 5/8")
	149-0561	1	Spec L Only	41	526-0063	2	Washer, Flat - Copper (17/64" ID x 7/16" OD x 1/32" Thk)
	149-0677	1	Key 1.2,3 - Spec A-K	42	149-0693	1	*Pump, Fuel (Includes Mtg. Gasket)
	149-0561	1	Key 4.5 - Spec A-K	43	149-0003	1	Gasket
12	502-0003	1	Connector, Pipe - Inverted Male - Key 4.5,6	44	149-1564	1	Bracket, Support - Fuel Filter - Begin Spec R
13	502-0002	1	Elbow, Pipe - Inverted Male' Key 1.2,3				
14		1	Choke, Electric (See Separate Group for Parts)				
15	868-0001	2	Nut, Hex (1/4-28)				
16	853-0013	2	Washer, Lock - External Tooth (1/4")				
17	CARBURETOR GASOLINE (See Separate Group for Parts) (Includes Mtg. Gasket)						
	146-0093	1	£Begin Spec M				
	143-0075	1	£Key 1.2,3 - Spec L Only				
	143-0075	1	£Key 4.5 - Spec A-L				
18	CARBURETOR GASOLINE (See Separate Group for Parts) (Includes Mtg. Gasket)						
	142-0311	1	Key 1.2,3 - Spec A-K				
19	141-0078	1	Gasket				
20	145-0469	1	Plate, Support - Carburetor				
21	145-0110	1	Spacer, Mounting - Carburetor				
22	145-0063	1	Gasket				
23	142-0310	1	Manifold, Intake - Key 1,2,3 Spec A-K				

£ - No Longer Available, for Complete Replacement
Order Kit No. 146-0297 which includes a 146-0093
Carburetor.

* - For Complete Replacement, Order Kit 149-1784,
which includes a 149-0693 Fuel Pump.

CARBURETOR PARTS (146-0093)



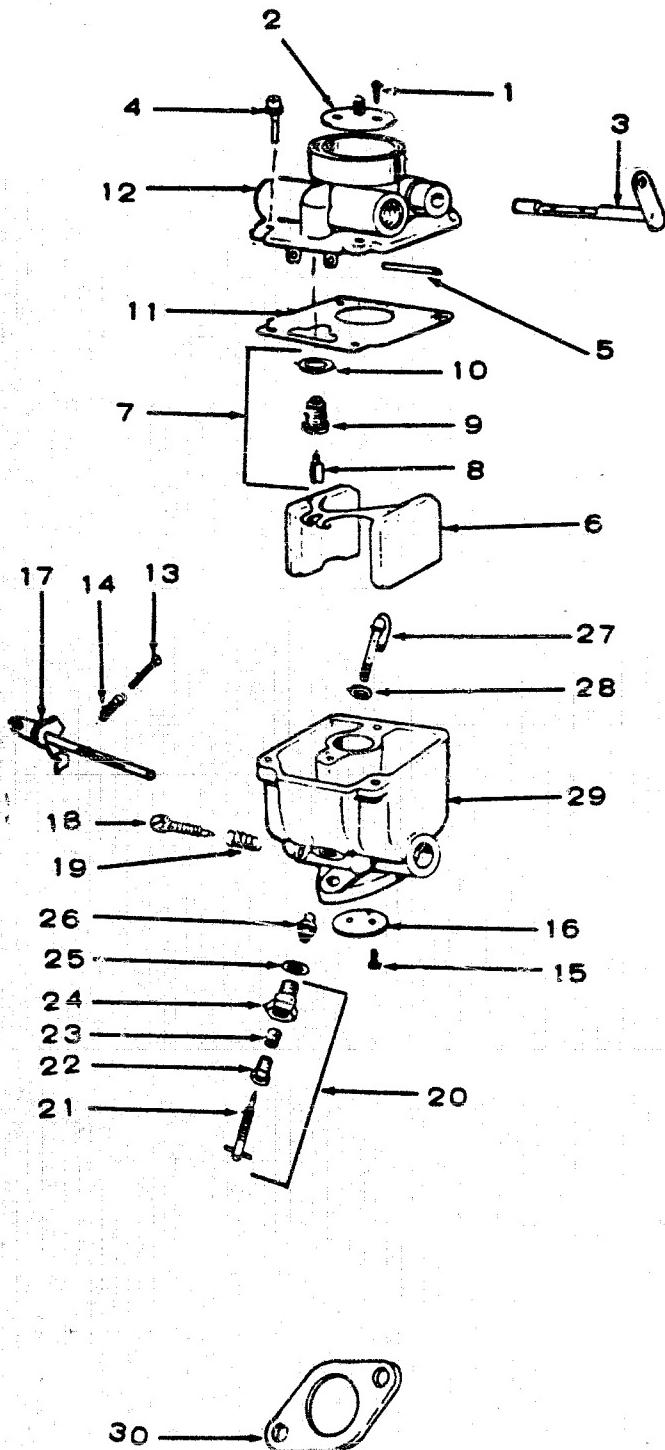
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
146-0093	1	1	£Carburetor, Gasoline
146-0123	1	1	Kit, Repair (Includes Parts Marked *)
146-0124	1	1	*Kit, Gasket (Includes Parts Marked †)
1	146-0102	1	*Needle Assembly, Power (Includes Items 2-5)
2	146-0117	1	Needle, Power
3	146-0118	1	Spring
4	146-0120	1	Seal, "O" Ring
5		1	Bushing, Reducer
6		2	†Gasket
7	146-0116	1	Bowl, Fuel
8		1	Gasket, Fuel Bowl
9	146-0111	1	Shaft, Float
10	146-0110	1	Float, Fuel
11	146-0115	1	*Valve Assembly, Fuel (Includes Items 12 - 14)
12		1	Needle, Valve
13		1	Seat, Valve
14		1	†Gasket - Fuel Valve
15	146-0109	1	Screw, Machine - With Lockwashers
16	146-0104	1	Plate, Choke
17	146-0107	1	Shaft, Choke
18	146-0109	1	Screw, Machine - With Lockwasher
19	146-0119	1	Plate, Throttle
20	146-0112	1	Shaft, Throttle
21	146-0122	1	Screw, Machine - Throttle Stop
22	146-0116	1	*Needle - Idle Adjustment
23	146-0186	2	Spring
24	146-0113	1	Nozzle, Fuel
25		1	Body, Carburetor
26	141-0078	1	†Gasket - Carburetor Mounting

* - Included in Repair Kit.

† - Included in Gasket Kit.

£ - No Longer Available, For Replacement Order Kit #146-0297.

CARBURETOR PARTS (142-0311)

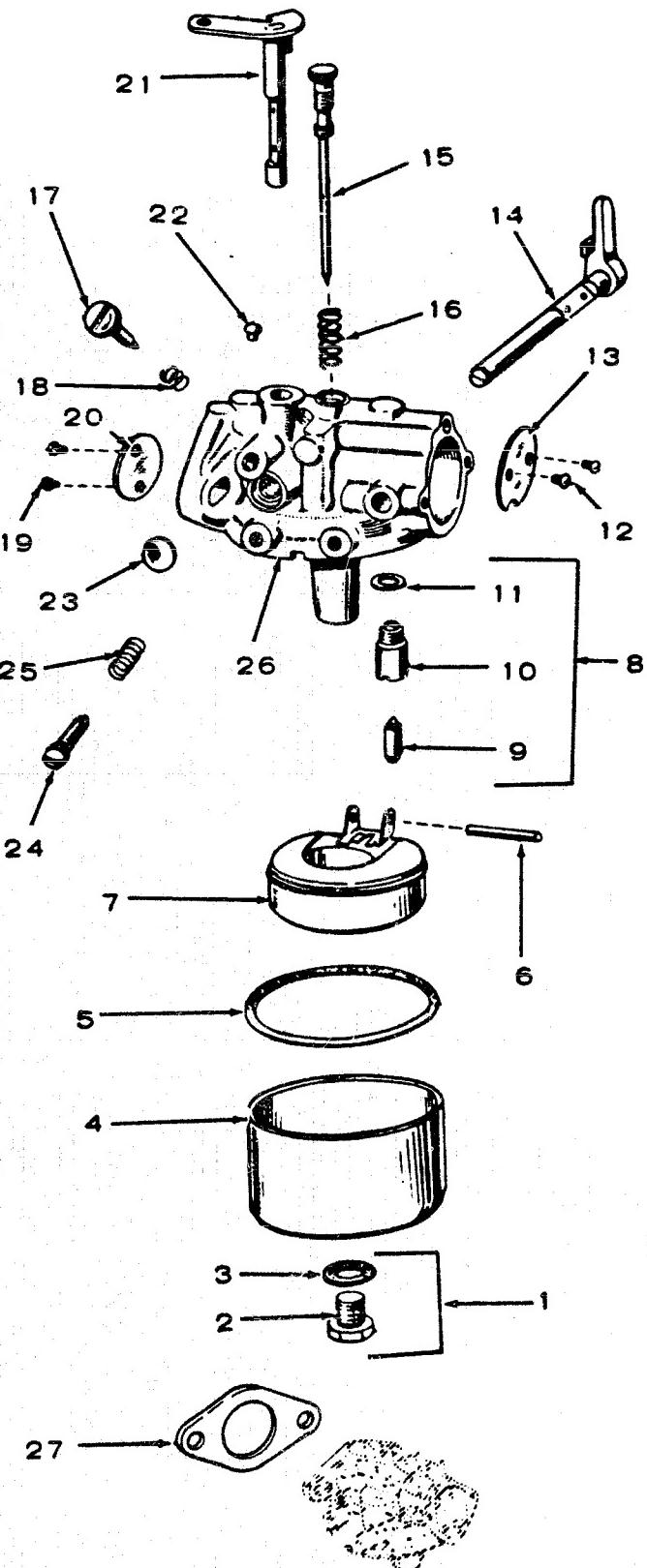


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	142-0311	1	Carburetor, Gasoline
	142-0414	1	Kit, Repair (Includes Parts Marked *)
	142-0033	1	*Kit Gasket (Includes Parts Marked †)
1	815-0091	2	*Screw, Machine - Fillister Head with Lockwasher (#4-40 x 3/16")
2	142-0037	1	Plate, Choke
3	142-0183	1	Shaft, Choke
4	815-0103	3	Screw, Machine - Fillister Head (#10-24 x 1/2")
5	142-0039	1	*Shaft, Float
6	142-0361	1	Float, Fuel
7	142-0049	1	*Valve Assembly, Fuel (Includes Items 8 - 10)
8		1	Needle, Valve
9		1	Seat, Valve
10	148-0017	1	†Gasket
11	142-0031	1	†Gasket - Cover to Body
12	142-0205	1	Cover
13	815-0106	1	Screw, Machine - Fillister Head (#6-32 x 3/4")
14	142-0035	1	Spring, Throttle Stop Screw
15	142-0026	2	*Screw - Throttle Plate
16	142-0025	1	Plate, Throttle
17	142-0316	1	*Shaft, Throttle
18	142-0040	1	*Needle - Idle Adjustment Spring - Idle Adjustment Needle
19	142-0282	1	Power Needle (Includes Items 21-24)
20	142-0042	1	Needle - Power Adjustment Retainer, Packing
21	142-0041	1	Packing - Adjusting Needle
22	142-0045	1	Retainer - Power Adjustment
23	142-0206	1	*Gasket
24	142-0046	1	Nut, Nozzle
25	148-0017	1	Nozzle, Fuel
26	142-0290	1	†Gasket, Nozzle
27	142-0285	1	Body, Carburetor
28	142-0032	1	†Spacer - Carburetor Mounting
29			
30	141-0078	1	

* - Included in Repair Kit.

† - Included in Gasket Kit.

CARBURETOR PARTS (143-0075)



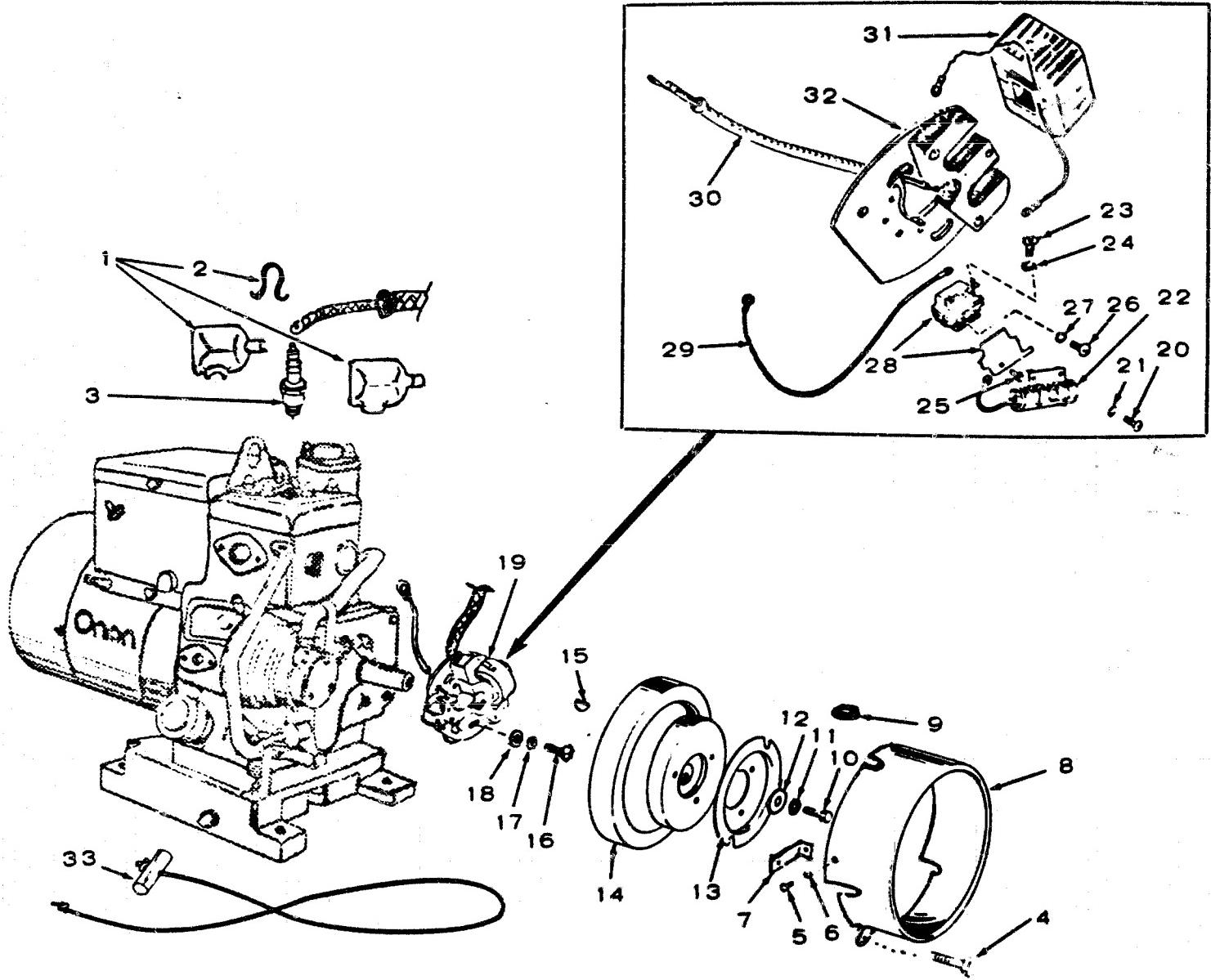
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	143-0075	1	£Carburetor, Gasoline
	143-0081	1	Kit, Repair (Includes Parts Marked *)
	143-0080	1	*Kit, Gasket (Includes Parts Marked †)
1	143-0118	1	Screw, Cap and Gasket
2		1	Screw, Cap
3	143-0036	1	†Gasket
4	143-0119	1	Bowl, Fuel
5	143-0077	1	†Gasket - Fuel Bowl
6	141-0703	1	Shaft, Float
7	143-0105	1	Float, Fuel
8	143-0341	1	*Valve Assembly, Fuel (Includes Items 9 - 11)
9		1	Needle, Valve
10		1	Seat, Valve
11	143-0015	1	†Gasket - Fuel Valve
12	812-0014	2	*Screw, Machine - Round Head Brass (#3-48 x 3/16")
13	143-0099	1	Plate, Choke
14	143-0100	1	Shaft, Choke
15	143-0078	1	*Needle - Speed Adjustment
16	143-0114	1	Spring - Adjustment Needle
17	143-0109	1	Screw, Idle Adjustment
18	143-0112	1	Spring - Idle Adjustment Screw
19	812-0014	2	*Screw, Machine - Round Head Brass (#3-48 x 3/16")
20	143-0097	1	Plate, Throttle
21	143-0098	1	Shaft, Throttle
22	143-0030	1	Plug - Idle Passage
23	143-0110	1	Plug, Expansion
24	143-0115	1	Screw - Throttle Stop
25	143-0111	1	Spring - Throttle Stop Screw
26		1	Body, Carburetor
27	145-0110	1	†Spacer - Carburetor Mounting

* - Included in Repair Kit.

† - Included in Gasket Kit.

£ - No Longer Available. For Replacement Order Kit
#146-0126.

IGNITION SYSTEM



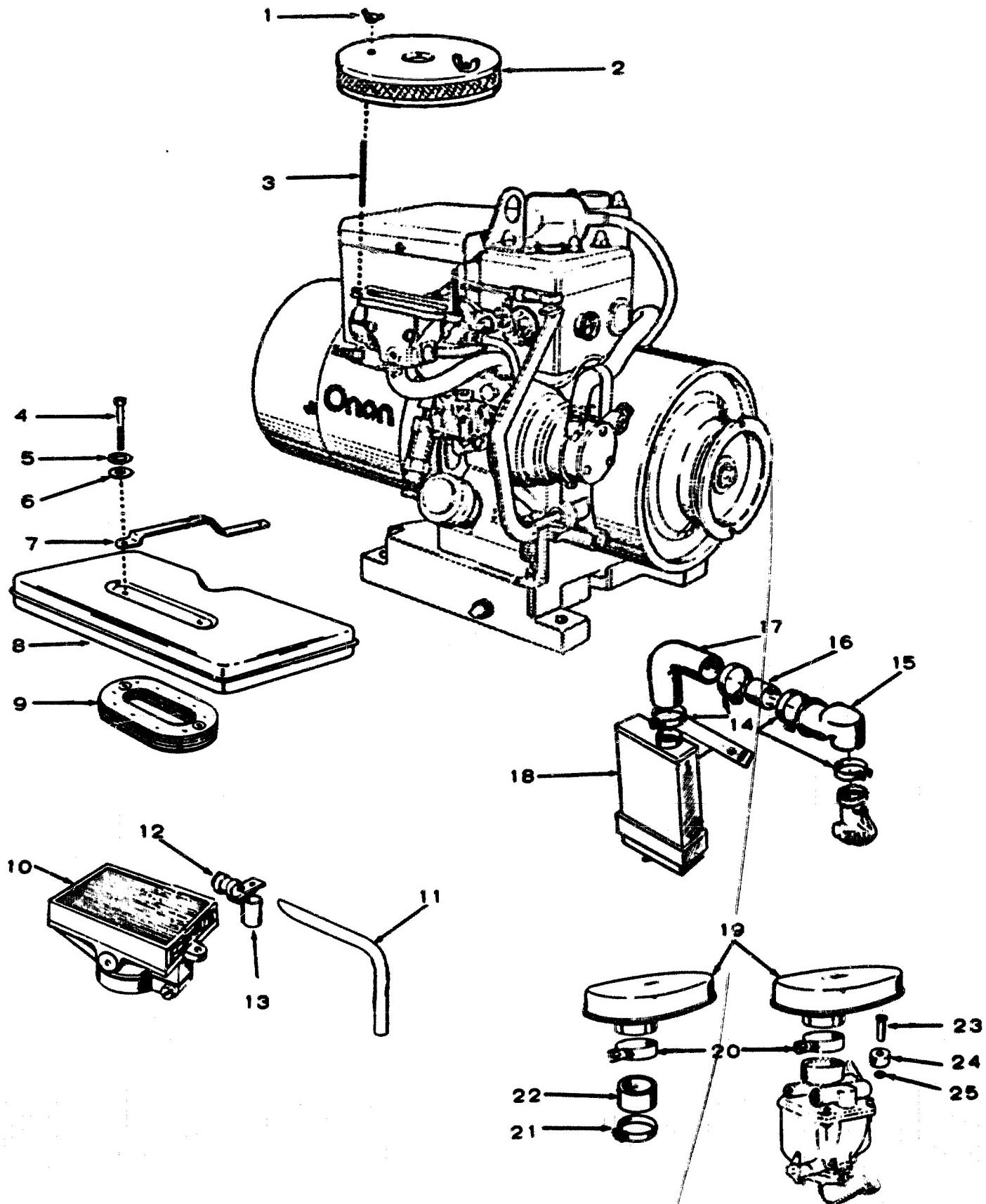
IGNITION SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	167-0067	1	Shield Assembly - Spark Plug (Includes Clamp)
2	167-0064	1	Clamp, Retaining - Shield
3	PLUG, SPARK 167-0241	1	Standard Type
	167-0237	1	Resistor Type
4	821-0004	3	Screw, Self-locking Hex Washer Head (#10-32 x 5/16")
5	800-0003	1	Screw, Cap - Hex Head (1/4-20 x 1/2")
6	850-0040	1	Washer, Lock - Spring (1/4")
7	160-0237	1	Bracket, Support - Flywheel Cover
8	160-0528	1	Cover, Flywheel
9	508-0021	1	Grommet, Rubber
10	104-0237	1	Screw, Cap - Hex Head (Special)
11	850-0055	1	Washer, Lock - Spring (7/16")
12	WASHER - FLYWHEEL MOUNTING 104-0304	1	Used Up to Serial #28B581638 During Spec A (Special)
	526-0017	1	Used Beginning Serial #28B581639 during Spec A (15/32" ID x 1-1/4" OD x 1/4" Thk)
13	SHEAVE, ROPE 160-0233	1	Used Up to Serial #28B581638 During Spec A
	192-0261	1	Used Beginning Serial #28B581639 During Spec A
14	FLYWHEEL (Includes Magnets) 160-0564	1	Used up to Serial #28B581638 During Spec A; Not Available Order Current Flywheel, Sheave and Mounting Hardware
	160-0604	1	Used Beginning Serial #28B581639 During Spec A
15	515-0113	1	Key, Woodruff
16	821-0018	2	Screw, Self-locking Hex Washer Head (1/4-20 x 5/8")
17	850-0040	2	Washer, Lock - Spring (1/4")
18	526-0214	2	Washer, Flat (17/64" ID x 1/2" OD x 1/16" Thk)
19	160-0487	1	Magneto Assembly (Includes Items 20-32)
20	812-0075	1	Screw, Machine - Round Head (#8-32 x 1/4")
21	854-0007	1	Washer, Lock - Internal Tooth (#6)
22	312-0033	1	Capacitor (.02 MFD, 300 VDC)
23	812-0059	1	Screw, Machine - Round Head (#6-32 x 1/4")
24	853-0003	1	Washer, Lock - External Tooth (#6)
25	815-0122	1	Screw, Tapping - Hex Head (#6-32 x 1/2")
26	812-0077	1	Screw, Machine - Round Head (#6-32 x 3/8")
27	850-0025	1	Washer, Lock - Spring (#6)
28	160-0540	1	Point Set (Includes Parts Marked *)
29	336-0345	1	Lead, Electrical
30	167-1272	1	Cable, Spark Plug - Shielded
31	160-0155	1	Coil, Magneto
32	160-0454	1	Plate and Poleshoe Magneto
33	192-0023	1	Rope, Starting - With Handle

* - Parts Included in 160-0540 Point Set.

933-0220 (MARCH 1962)

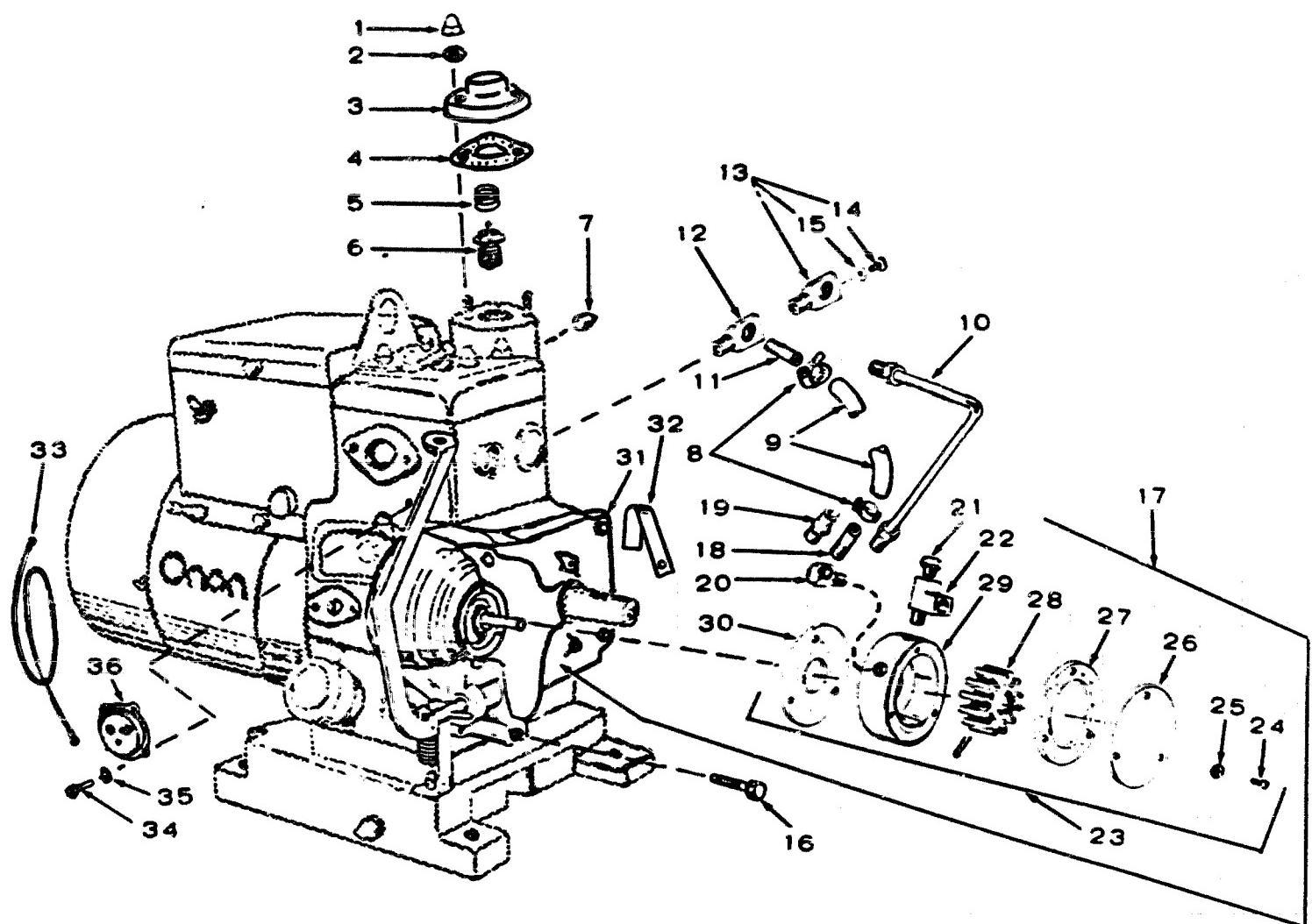
AIR CLEANER - FLAME ARRESTER



AIR CLEANER - FLAME ARRESTER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	865-0020	2	Nut, Wing (1/4-20)
2	140-1457	1	Arrester, Flame - Begin Spec R - Key 6
3	520-0757	2	Stud (1/4-20 x 2")
4	800-0720	2	Screw, Cap - Hex Head Corrosion Resistor Steel (Special)
5	850-0040	2	Washer, Lock - Spring (1/4")
6	526-0021	2	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)
7	140-1166	1	Bracket, Support - Resonator Spec L Thru P, Key 1-5
8	RESONATOR		
	140-0830	1	Spec L Only, Key 1-5
	140-0976	1	Spec M-P, Key 1-5
9	140-0802	1	Arrester, Flame Spec L - P, Key 1-5
10	FLAME ARRESTER - Spec K Only		
	145-0263	1	Key 1-3
	145-0082	1	Key 4.5
11	145-0346	1	Adapter, Breather Hose Spec K Only, Key 1-5
12	332-0050	1	Clamp, Loop - Spec K Only Key 1-5
13	145-0347	1	Spacer - Spec K Only Key 1-5
14	503-0280	4	Clamp, Loop - Spec G-J Key 4.5
15	145-0079	1	Inlet, Air - Rubber Spec G-J, Key 4.5
16	140-0211	1	Sleeve, Hose - Spec G-J Spec 4.5
17	ELBOW, HOSE - Key 4.5 Only		
	503-0480	1	Spec G Only
	503-0480	1	Spec H-J Only
18	AIR CLEANER - Key 4.5 Only		
	140-0557	1	Spec G Only
	140-0586	1	Spec H Thru J Only
19	140-0041	1	Air Cleaner - Spec A-J Key 1-3; Spec A-F Key 4.5
20	503-0019	1	Clamp, Loop (Included with 140-0041 Air Cleaner)
21	503-0280	1	Clamp, Loop - Spec A-F Key 4.5
22	503-0363	1	Hose - Spec A-F, (1-1/2" ID x 1-5/16" Long) Key 4.5
23	123-0292	1	Adapter, Breather Hose Spec A-J, Key 1-3; Spec A-F, Key 4.5
24	402-0076	1	Bushing, Rubber - Spec A-J Key 1-3; Spec A-F, Key 4.5
25	851-0009	1	Washer, Retaining - Spec A-J, Key 1-3, Spec A-F, Key 4.5

COOLING SYSTEM



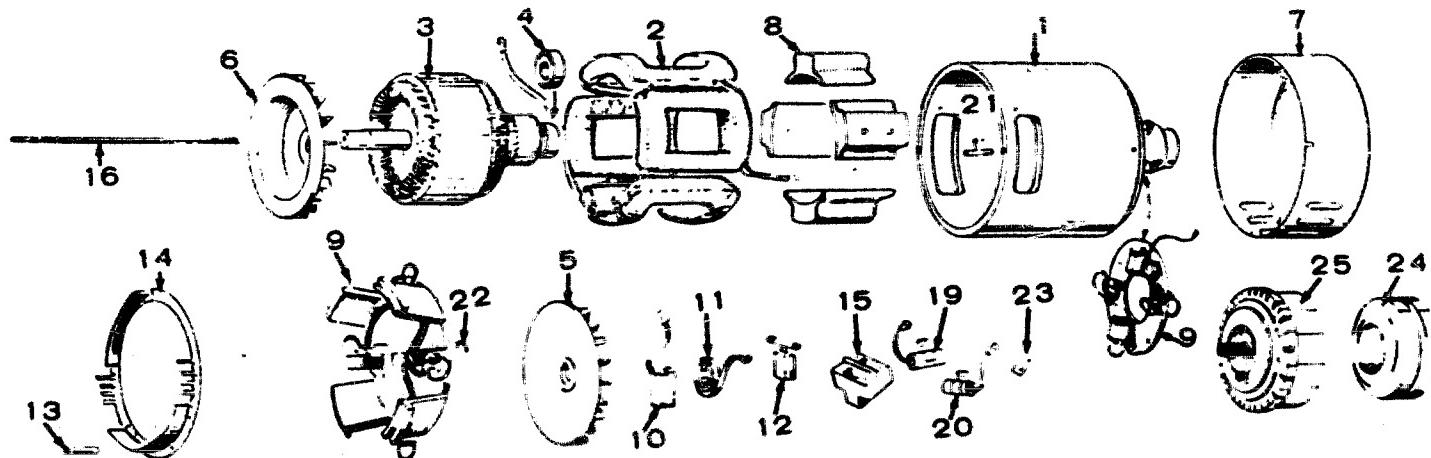
COOLING SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION		
1	869-0002	2	Nut, Acorn (5/16-24)	18	502-0432	1	Connector, Hose (Begin Spec M) Useable on Spec H-L		
2	526-0065	2	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16" Thk)	19	502-0082	1	Nipple, Hex - Pipe to Hose (Spec H-L)		
3	309-0301	1	Cover, Thermostat	20	ELBOW	1	Pipe - Street (Begin Spec H)		
4	309-0004	1	Gasket	502-0020	1	Inverted Male (Spec A-G)			
5	309-0088	1	Spring	502-0004	1	Plug, Pipe - Brass			
6	309-0298	1	Thermostat (Prior to Serial No. 76016187 During Spec S - Also Order 309-0301 Cover)	21	502-0028	1	(1/8 NPT)		
7	505-0054	1	Plug, Pipe - Square Head (1/4 NPT)	22	502-0058	1	Tee, Pipe - Brass		
8	503-0170	2	Clamp, Hose	23	131-0107	1	Kit, Water Pump		
9	503-0449	1	Hose, Water - Flexible (Begin Spec H) (3/8" ID x 12-1/2" Long)	24	811-0105	3	Screw, Machine - Round Head Brass (#10-32 x 1")		
10	131-0113	1	Line, Water - Metal (Spec A Through G)	25	526-0071	3	Washer, Flat - Copper (13/64" ID x 3/8" OD x 1/32" Thk)		
11	FITTING, HOSE 502-0432	1	Connector, Hose (Begin Spec M) Useable on Spec H Through L	26	131-0042	1	Cover, Pump		
	502-0082	1	Nipple, Hex - Pipe to Hose (Spec H Through L)	27	131-0044	1	Gasket		
12	502-0020	1	Elbow, Pipe - Street (Begin Spec H)	28	131-0050	1	Impeller (Includes Roll Pin)		
13	131-0064	1	Elbow, Inverted Male - With Tapped Drain Hole (Includes Screw and Washer)	29	131-0045	1	Body, Pump		
14	811-0096	1	Screw, Machine - Round Head Brass (#10-32 x 1/4")	30	131-0043	1	Gasket		
15	526-0071	1	Washer, Flat - Copper (13/64" ID x 3/8" OD x 1/32" Thk)	31	GEARCASE ASSEMBLY - See Separate Group For Parts				
16	SCREW, CAP - HEX HEAD 800-0032 800-0034	2	5/16-18 x 1-3/4" 5/16-18 x 2-1/4"	103-0167	1	Key 1,2,3 - Spec A-K			
17	ASSEMBLY - WATER PUMP AND GEARCASE 131-0108 131-0124 131-0124	1	£Key 1,2,3 - Spec A-K Key 1,2,3 - Begin Spec L Key 4,5,6	103-0211	1	Key 1,2,3 - Begin Spec L			
				103-0211	1	Key 4,5,6			
				32	130-0612	1	Clamp, Hold down - Flexible Waterline (Begin Spec H)		
				33	334-0028	1	Lead, Electrical - Switch to Control (#16 Wire x 4 Ft. Long)		
				34	812-0075	2	Screw, Machine - Round Head (#8-32 x 1-1/4")		
				35	854-0007	2	Washer, Lock - Internal Tooth (#8)		
				36	309-0002	1	Switch, High Coolant Temperature		

£ - No Longer Available, For Replacement Order Kit
#131-0107 Water Pump Repair and #103-0167
Gearcase Assembly.

GENERATOR ASSEMBLY - 4 POLE TYPE

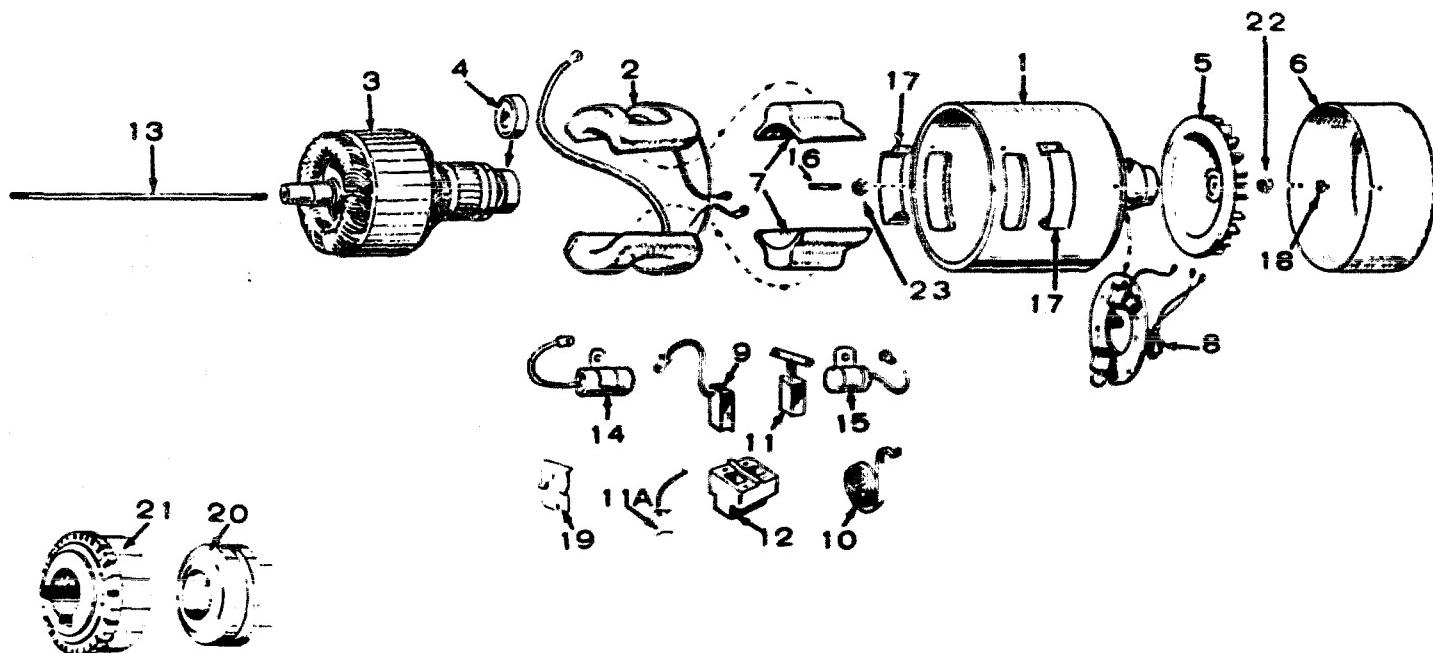
(Parts Key Nos. 1,2,3)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
1	FRAME, GENERATOR - MACHINED & DRILLED			9	RIG ASSEMBLY, BRUSH - INCLUDES BRUSHES AND SPRINGS			
	210-1449	1	Key 1 - Spec A Through G		212-0209	1	Key 1	
	210-1739	1	Begin Spec H		212-0379	1	Key 2 - Spec A Through G	
	210-0254	1	Key 2 - Spec A Through G		212-0386	1	Key 2 - Begin Spec H	
	210-0332	1	Key 2 - Begin Spec H		212-0378	1	Key 3 - Spec A Through G	
	210-0240	1	Key 3 - Spec A Through D (32 Volt Only)		212-0251	1	Key 3 - Begin Spec H	
	210-0279	1	Key 3 - Spec E and Spec F (32 Volt Only)	10	BRUSH, COMMUTATOR			
	210-1638	1	Key 3. Begin Spec H (32 Volt Only)		214-0041	4	Key 1	
	210-0336	1	Key 3. Begin Spec H (24 Volt Only)		214-0044	4	Key 2	
2	COIL ASSEMBLY, FIELD - SET OF 4 COILS, WIRED TOGETHER				214-0047	4	Key 3 - Spec A Through G	
	222-1400	1	Key 1 - Spec A Through G		214-0009	4	Key 3 - Begin Spec H	
	222-1573	1	Key 1 - Begin Spec H	11	SPRING, COMMUTATOR BRUSH			
	222-1408	1	Key 2		212-1003	4	Key 1	
	222-1411	1	Key 3 (32 Volt Only)		212-1003	4	Key 3. Begin Spec H	
	222-1605	1	Key 3 (24 Volt Only)	12	212-1105	4	Key 2	
3	ARMATURE ASSEMBLY				212-1106	4	Key 3 - Spec A Through G	
	201-0677	1	Key 1 (Includes Blower & Bearing) - Spec A Through G		12	214-0059	4	Brush & Spring, Collector Ring - Key 1
	201-1072	1	Key 1 - Begin Spec H		13	232-1197	2	Spacer - Mounting Scroll - Key 1, 3 - Spec A Through G
	201-0794	1	Key 2		14	234-0007	1	Scroll, Air - Generator - Key 1,3 - Spec A Through G
	201-0693	1	Key 3 (Includes Blower & Bearing) - Spec A Through G (32 Volt Only)		15	212-1064	2	Guide, Collector Ring Brush - Key 1
	201-1093	1	Key 3 - Begin Spec H (32 Volt Only)		16	STUD, ARMATURE THROUGH		
	201-1189	1	Key 3 - Begin Spec H (24 Volt Only)		520-0274	1	Key 1 - Spec A Thrcugh G	
4	510-0047	1	Bearing, Ball - Armature Key 1,3		520-0056	1	Key 1 - Begin Spec H	
5	205-0047	1	Blower, Key 1,3 - (Mounts At Engine End) Spec A Through G		520-0529	1	Key 2 - Spec A Through G	
6	205-0056	1	Blower, Key 2 - All Specs - Key 1,3 - Begin Spec H		520-0571	1	Key 2 - Begin Spec H	
7	COVER, GENERATOR END				520-0275	1	Key 3 - Spec A Through G	
	232-1214	1	Key 1 - Spec A Through G		520-0279	1	Key 3 - Begin Spec H	
	232-1214	1	Key 3 - Spec A Through D		19	312-0017	1	Condenser - 0.5 Mfd - DC Brush
	234-0125	1	Key 3 - Spec E Through G		20	312-0058	1	Condenser - 0.1 Mfd - AC Brush - Key 1
	234-0004	1	Key 2 - Spec A Through G		21	520-0363	2	Stud, Generator Frame to Engine
	234-0127	1	Key 1,2,3 - Begin Spec H		22	232-0596	1	Clip, Bearing Stop - Key 3 Spec A Through G
8	SHOE, POLE				23	232-1557	2	Clip, Generator End Cover (Key Washer)
	221-0110	4	Key 1		24	204-0087	1	Collector Ring
	221-0111	4	Key 2		25	COMMUTATOR		
	221-0114	4	Key 3		203-0133	1	Key 1	

NOTE: Resistor mounted in generator for Parts Key No. 1
appears in Anti-Flicker Group.

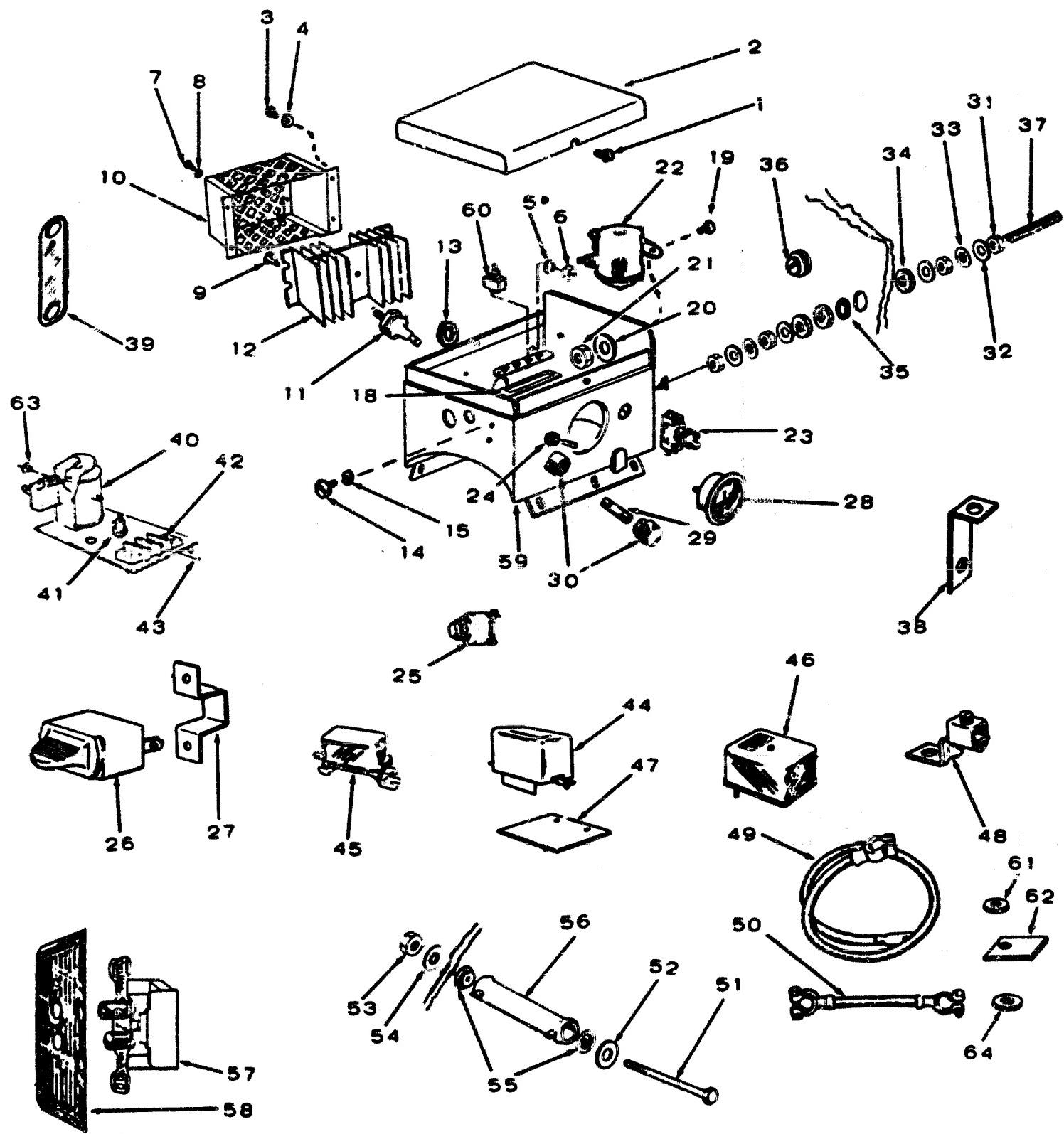
GENERATOR ASSEMBLY—2 POLE TYPE
(Parts Key Nos. 4,5 and 6)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1 FRAME ONLY (MACHINED & DRILLED)			
			Key 4 and 6
210-1704	1	1	Spec A Through G
210-1719	1	1	Begin Spec H - Key 6
			Begin Spec R
			Key 5
210-1701	1	1	Spec A Through G
210-1720	1	1	Begin Spec H
2 COIL ASSEMBLY, FIELD (SET OF 2 COILS)			
222-1561	1	1	Spec A Through H
222-1598	1	1	Begin Spec J
3 ARMATURE ASSEMBLY (Includes Bearing)			
			Key 4 and 6
201-1044	1	1	Spec A Through H
201-1141	1	1	Begin Spec J - Key 6
			Begin Spec R
			Key 5
201-1043	1	1	Spec A Through H
201-1140	1	1	Begin Spec J
			Key 6
201-1224	1	1	60 Hertz. 240 Volt 1 Phase - 3 0 MAJ
4 510-0047			
5 205-0056	1	1	Bearing, Ball - Armature
6 COVER, GENERATOR END			
			Key 4 and 6
234-0127	1	1	Spec A Through G
234-0127	1	1	Begin Spec H - Key 6
			Begin Spec R
			Key 5
234-0129	1	1	Begin Spec A
7 221-0135	2	2	Shoe, Pole
8 RIG ASSEMBLY, BRUSH (Includes Brushes and Springs)			
212-0277	1	1	Key 4 and 6
212-0273	1	1	Key 5
9 214-0070	2	2	Brush, Commutator
10 212-1011	2	2	Spring, Commutator Brush

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11 BRUSH, COLLECTOR RING - Spec A Through H			
214-0059	4	1	Key 4
214-0059	6	1	Key 5
11A BRUSH, COLLECTOR RING - Begin Spec J			
214-0072	2	1	Key 4 and 6
214-0073	3	1	Key 5
12 GUIDE, SLIP RING BRUSH - Spec A Thru H			
212-1064	2	1	Key 4
212-1162	1	1	Key 5
13 STUD, ARMATURE THROUGH			
520-0285	1	1	Key 4 and 6
520-0563	1	1	Key 5
14 CONDENSER, DC - 0.5 MFD			
312-0027	1	1	Spec A Through G Also Spec R & S. Key 6
312-0017	1	1	Begin Spec H - Key 6 Begin Spec R
312-0017	1	1	Key 5
15 CONDENSER, AC - 0.1 MFD			
312-0058	1	1	Key 4 and 6
312-0058	2	1	Key 5
16 STUD, GENERATOR FRAME TO ENGINE			
520-0363	4	1	1/4 x 1-9/16" Lg (1/2 NC x 1-2 NF)
520-0632	4	1	1/4 x 1-1 2" Lg (1-2 NC x 1-2 NF)
17 COVER, GENERATOR FRAME AIR OPENING			
234-0124	2	2	Spec A Through G
234-0119	2	2	Begin Spec H
18 232-1557	2	2	Clip, Generator End Cover
19 212-1105	2	2	Spring & Support Assembly AC Brush - Begin Spec J
20 COLLECTOR RING			
204-0087	1	1	Key 4 and 6
204-0089	1	1	Key 5
21 203-0133	1	1	Commutator
22 104-0091	1	1	Nut, Hex (Special)
23 115-0025	4	1	Nut, Hex (Special) - Generator Frame

CONTROL ASSEMBLY



CONTROL ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")	38	332-0523	1	Jumper, Terminal - Solenoid Key 1,4,5 Spec A-G
2	COVER 301-1060	1	Spec A-G	39	332-0592	1	Jumper, Ground - Key 1
	301-1858	1	Begin Spec H	40	RELAY - START DISCONNECT		
3	812-0077	4	Screw, Machine - Round Head (#8-32 x 3/8")	307-1978	307-1978	1	Key 4,5 - Spec A-G
4	853-0005	4	Washer, Lock - External Tooth (#8)	305-0235	1	Key 4,5,6 - Begin Spec H	
5	850-0025	4	Washer, Lock - Spring (#8)	332-0609	1	Diode, Rectifier - Key 4,5 Spec A-H	
6	860-0008	4	Nut, Hex (#8-32)	301-1629	1	Block, Terminal - Key 4,5 Spec A-H	
7	809-0035	4	Screw, Tapping - Round Head (#8 x 3/4")	307-0496	1	Bracket, Mounting - Key 4,5 Spec A-H	
8	853-0005	4	Washer, Lock - Spring (#8)	307-0180	1	Relay - Reverse Current Key 3 - Spec F-M (32 Volt)	
9	870-0196	4	Nut, Insulating	307-0144	1	Relay - Reverse Current - Key 1	
10	301-3395	1	Box, Protective - Heat Sink - Key 3, Begin Spec N	307-1976	1	Key 2: Spec A-G	
11	358-0038	1	Diode, Rectifier - Key 3, Begin Spec N	358-0039	1	Key 3: Spec A-E (32 Volt)	
12	363-0057	1	Heat Sink - Key 3, Begin Spec N	301-0592	1	Key 3: Begin Spec H (24 Volt)	
13	508-0109	1	Grommet	416-0077	2	Plate, Insulator Key 2: Spec A-G	
14	812-0077	2	Screw, Machine - Round Head (#8-32 x 3/8")	332-0142	1	Key 3: Begin Spec F	
15	850-0025	2	Washer, Lock - Spring (#8)	416-0004	1	Terminal, Ground - Key 4,5,6	
16	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")	813-0118	1	Cable, Battery (28")	
17	332-0222	1	Terminal Block	526-0012	1	Cable, Battery - Jumper (7")	
18	332-0198	1	Bracket, Mounting - Terminal Block	526-0012	1	Screw, Cap - Hex Head (#10-32 x 5")	
19	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")	861-0008	1	Washer, Flat (1" ID x 3/4" OD x 1/32" Thk)	
20	856-0003	2	Washer, Lock - External Internal Tooth (#10)	854-0010	1	Nut, Hex (#10-32)	
21	870-0053	2	Nut, Hex (#10-32)	304-0015	2	Washer, Lock - Internal Tooth (#10)	
22	SOLENOID, START 307-0046	1	Key 1,2,4,5,6	304-0268	1	Washer, Centering	
	307-0061	1	Key 3	RESISTOR, WIRE WOUND			
23	308-0002	1	Switch, Toggle - Key 1 (Hi-Low Charge Rate)	304-0002	1	Adjustable - Key 1 (10 Ohm, 50 Watt)	
24	SWITCH, TOGGLE - START/STOP 308-0154	1	Key 1,4,5,6 - Begin Spec H	304-0046	1	Key 4,5 - Spec A-H (15 Ohm, 50 Watt)	
	308-0155	1	Key 2,3 - Begin Spec H	308-0053	1	Key 4,5,6 - Begin Spec J (10 Ohm, 50 Watt)	
25	308-0029	1	Switch, Push - Key 2,3 Spec A-G	308-0041	1	Switch, Push - Remote Start/Stop	
26	308-0166	1	Switch, Toggle - Key 2,3 Spec A-G	BOX, CONTROL	1	Plate, Switch	
27	301-0974	1	Bracket Mounting - Switch Key 1,4,5 - Spec A-G	301-1059	1	Key 1; Spec A-G	
28	METER 302-1360	1	Ammeter - Key 1	301-1127	1	Key 2; Spec A-G	
	302-1363	1	Ammeter, Key 2,3 (12 & 32 Volt)	301-1128	1	Key 3; Spec A - E (32 Volt)	
	302-1364	1	Ammeter, Key 3 (24 Volt)	301-1823	1	Key 4,5; Spec A-G	
	193-0006	1	Gauge, Oil Pressure	301-4659	1	Key 4,5 - Spec H	
29	321-0146	1	Fuse, Cartridge (10 Armp) - Though Spec R	301-1868	1	Key 2: Begin Spec H - Key 3: Spec H-M (32 Volt)	
30	321-0175	1	Holder, Fuse - Through Spec R	301-2082	1	Begin Spec S - Key 6	
	TERMINAL ASSEMBLIES (WHEN USED)			301-3408	1	Key 3: Begin Spec H (24 Volt, 32 Volt)	
31	871-0016	6	Nut, Hex - Brass (1/4-20)	301-4659	1	Key 4,5,6 - Begin Spec J	
32	526-0052	7	Washer, Flat - Brass (17/64 ID x 9/16 OD x 1/32" Thk)	301-4660	1	Key 1; Begin Spec H	
33	854-0014	5	Washer, Lock - Internal Tooth (1/4")	308-0097	1	Switch, Momentary Contact - Spec R-S Key 6	
34	508-0018	6	Washer, Insulating - Fiber (1/4" ID x 3/4" OD x 1/16" Thk)	61	GROMMET - Key 6		
35	508-0006	2	Washer, Insulating - Fiber (1/4" ID x 3/8" OD x 3/64" Thk)	508-0001	1	Rubber, Begin Spec S (3/4 ID x 1-9/32" OD)	
36	810-0155	1	Screw, Machine - Round Head, Brass (1/4-20 x 1-1/4")	508-0008	1	Rubber, Begin Spec S (1/2 ID x 1-1/16" OD)	
37	332-0125	1	Stud, Brass (1/4-20 x 1-3/4")	304-0292	1	Insulator, Resistor - Begin Spec S - Key 6	
				62	508-0015	3	Washer, Fiber - Begin Spec S - Key 6 (7/16" OD)
				63	508-0014	1	Washer, Fiber - Resistor Begin Spec S Key 6 (1/4" OD)

SERVICE KITS AND MISCELLANEOUS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	98-1807	1	Decal Kit
	168-0069	1	Gasket Kit
	OVERHAUL KIT		
	522-0214	1	Spec A Through L
	522-0231	1	Begin Spec M
	PAINT, TOUCH-UP ENAMEL		
	525-0216		Marine White, 16 Oz. Pressurized Can

For other service kits refer to the group for the part in question.

SPECIAL PARTS SECTION

"UTILITY" OR "MOBILE COMMUNICATIONS" SETS

NOTE: Use Parts Key No. 1 in Standard Parts Section for All Parts Not Covered in This Special Section.

ELECTRIC CHOKE PARTS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	153-0113	1	Cover Assembly (Includes Heating Element) - 12 Volt

CONTROL ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	320-0158	1	Circuit Breaker
28	302-1363	1	Ammeter
44	358-0078	1	Relay-Reverse Current
45	307-0454	1	Relay - Charging Disconnect

ANTI-FLICKER ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
21	304-0132	1	Resistor, Fixed, Wire Wound (1 Ohm, 25 Watt)

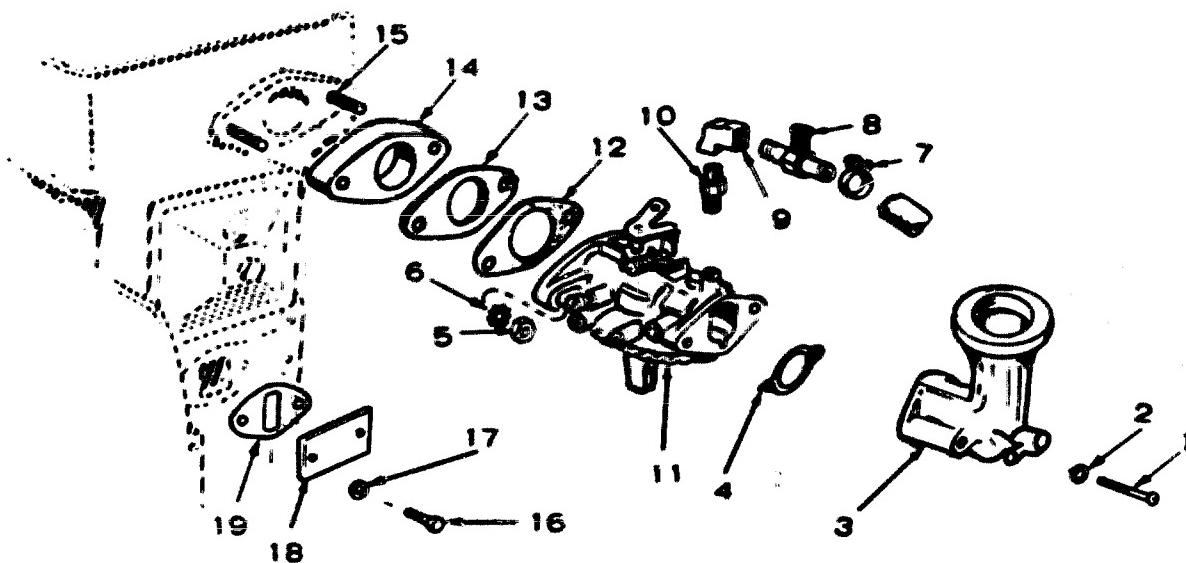
GENERATOR ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	222-1532	1	Coil Assembly, Field
3	ARMATURE ASSEMBLY	(Includes Bearing and Blower)	
	201-0946	1	Spec A - G; MAJ-1R1330
	201-1074	1	Begin Spec H - MAJ-1R1330
	IAJ '91	1	MAJ-2R1330; Spec H

OPTIONAL EQUIPMENT PARTS SECTION

This section contains illustrated parts listing of factory installed options for the generator sets. Options may not be applicable to all models; for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard parts section.

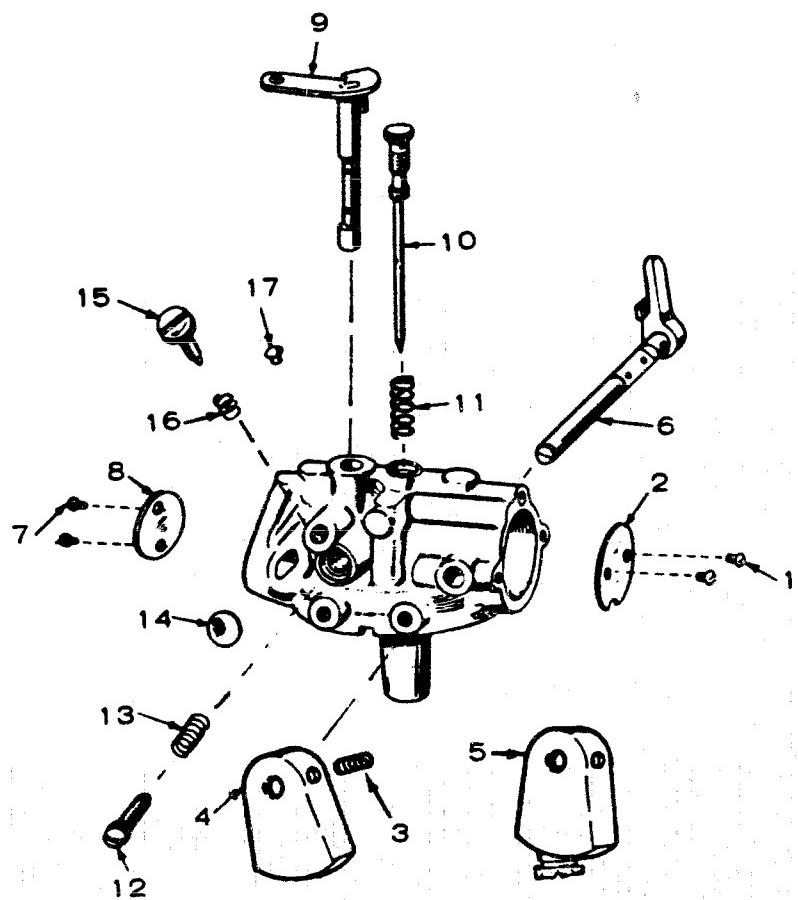
FUEL SYSTEM (GAS)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	812-0086	2	Screw, Machine - Round Head (#8-32 x 1-1/4")
2	850-0025	2	Washer, Lock - Spring (#8)
3	140-0446	1	Adapter, Air Cleaner
4	145-0111	1	Gasket
5	868-0001	2	Nut, Hex (1/4-28)
6	853-0013	2	Washer, Lock - External Tooth (1/4")
7	503-0027	1	Clamp, Hose
8	148-0178	1	*Valve, Gas Flow
9	502-0055	1	*Elbow, Pipe - Brass, 90°
10	502-0082	1	*Nipple, Pipe - Hex, Brass
11	CARBURETOR, GAS (Includes Gasket) - See Separate Group For Parts		
143-0160		1	No Longer Available Order Kit 146-0295 For Replacement
146-0091		1	*No Longer Available Order Kit 146-0295 For Replacement
12	141-0078	1	Gasket
13	145-0469	1	Plate
14	145-0110	1	Spacer
15	520-0363	2	Stud (1/4-28 x 1/4-20 x 1-9/16")
16	800-0005	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
17	526-0063	2	Washer, Flat - Copper (17/64" ID x 7/16" OD x 1/32" Thk)
18	149-0136	1	Cover, Plate
19	149-0003	1	Gasket

* - Included in Replacement Kit #146-0295

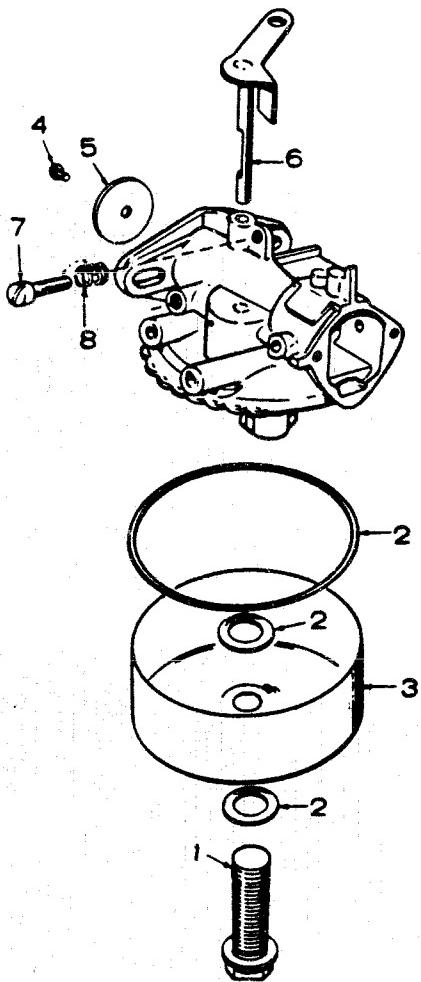
CARBURETOR PARTS (143-0160)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	143-0160	1	'Carburetor, Gas
1	812-0014	2	Screw, Machine - Round Head (#3-48 x 3/16")
2	148-0169	1	Plate, Choke
3	815-0230	1	Set Screw - Socket Drive (1/4-20 x 5/8")
4	148-0267	1	Counterweight (Non-Adjustable)
5	148-0412	1	Counterweight (Adjustable)
6	143-0100	1	Shaft, Choke
7	812-0014	2	Screw, Machine - Round Head (#3-48 x 3/16")
8	143-0097	1	Plate, Throttle
9	143-0098	1	Shaft, Throttle
10	148-0268	1	Needle, High Speed
11	143-0114	1	Spring - High Speed Needle
12	143-0115	1	Screw - Throttle Stop
13	143-0111	1	Spring - Throttle Stop Screw
14	143-0110	1	Plug, Expansion
15	143-0109	1	Screw - Idle Adjustment
16	143-0112	1	Spring - Idle Adjustment Screw
17	143-0030	1	Plug - Idle Passage

* - Carburetor No Longer Available. For Replacement Order Kit #146-0295.

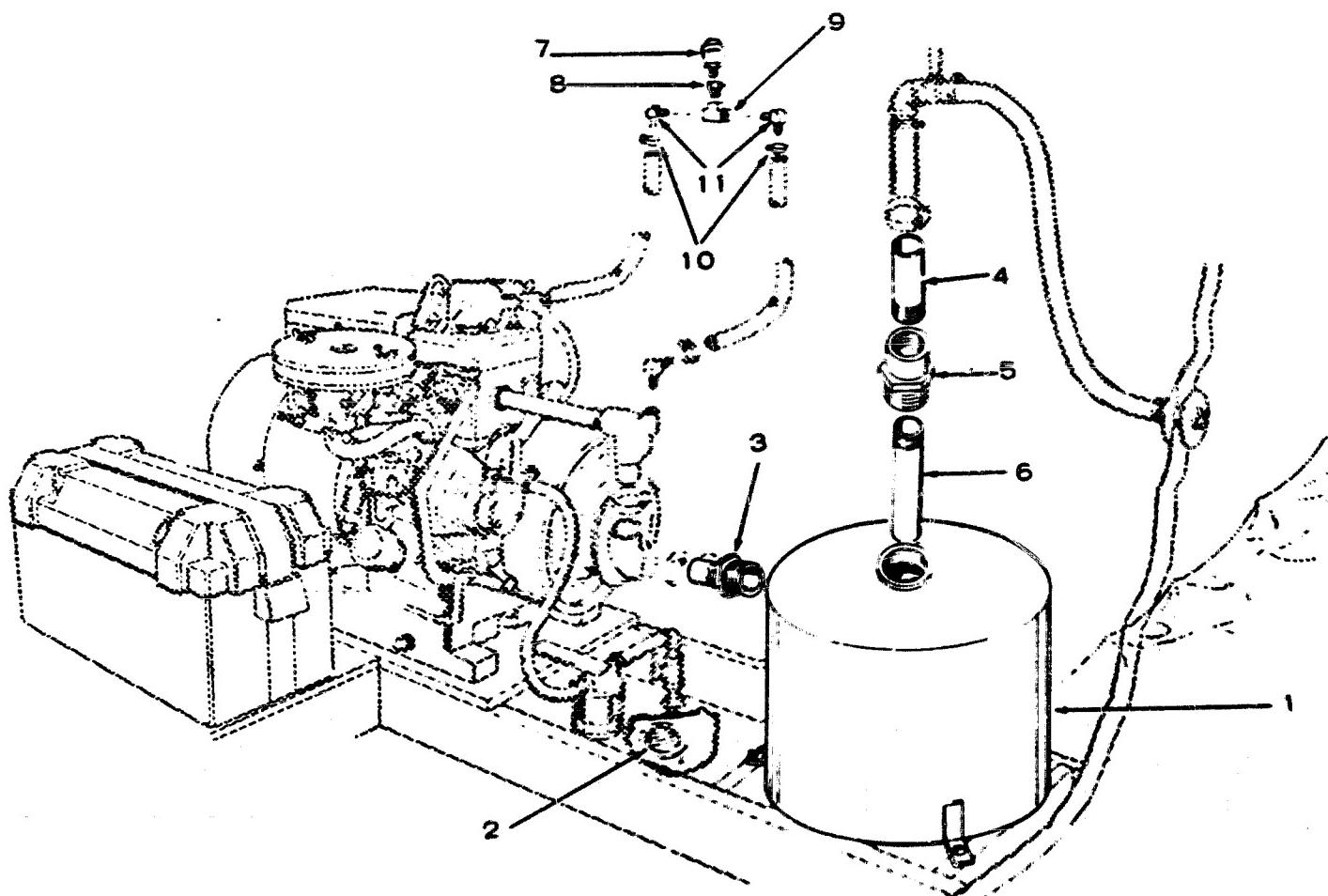
CARBURETOR PARTS (146-0091)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	146-0091	1	Carburetor, Gas
1	146-0103	1	Screw, Bowl Retaining
2	146-0124	1	Kit, Gasket
3	146-0118	1	Bowl, Carburetor
4	146-0109	1	Screw, Machine with Washer
5	146-0119	1	Plate, Throttle
6	146-0112	1	Shaft, Throttle
7	146-0122	1	Screw, Throttle Stop
8	146-0186	1	Spring - Throttle Stop Screw

£ - No Longer Available, For Replacement
Order Kit #146-0295.

AQUALIFT EXHAUST SYSTEM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	155-1004	1	Kit, Aqualift Muffler (Includes Parts Marked *)
1	155-0929	1	*Muffler, Exhaust - Marine Aqualift (For Replacement Order 155-1004)
2	155-1002	1	*Strainer, Water - Thru Hull
	155-0955	1	Package, Hookup - Marine Muffler (Includes Parts Marked †)
3	155-1121	1	Inlet Assembly, Muffler - Epoxy Coated
4	505-0721	1	†Nipple, Pipe - Half, Galv. (1-1/4 NPT x 3")
5	505-0635	1	†Bushing, Reducer - Double Tapped (2 NPT x 1-1/4 NPT)
6	505-0632	1	†Nipple, Pipe - Half - Galv. (1-1/4 NPT x 9-1/4")
	155-0950	1	Kit, Siphon Break Relief Valve (Includes Parts Marked **)
7	504-0062	1	**Valve, Vacuum Relief (1/2 NPT)
8	502-0270	1	**Adapter, Pipe (3/8 NPT to 1/2 NPT)
9	502-0090	1	**Tee, Pipe - Brass (3/8 NPT)
10	503-0446	2	**Clamp, Hose
11	502-0425	2	**Elbow, Hose (3/8 NPT x 1-1/2" Hose)

* - Parts Included in 155-1004 Aqualift Muffler Kit.

** - Parts Included in 155-0950 Siphon Kit.

† - Parts Included in 155-0955 Muffler Hookup Package.

SPECIAL PARTS LIST FOR MODEL 2.5 MAJ-1R SPEC 1F
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0130

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 1G
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 610-0130

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-3R SPEC 1G
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0123

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 0.5MAJ-212R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 2
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0144

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Battery Charging Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 0.6MAJ-212R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 2
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0144

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.0MAJ-1R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0141

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.0MAJ-1R1330 SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0150

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Utility - Mobile Communications Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.0MAJ-2R1330 SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0150

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Utility - Mobile Communications Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-224R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0204

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-252R SPEC IH
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0142

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-53R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0200

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model - 50 Hertz					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0140

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-3R SPEC 1H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0123

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 1J
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-3R SPEC 1J
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0200

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.0MAJ-1R1330 SPEC 1K
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 610-0150

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Utility - Mobile Communications Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 0.6MAJ-212R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 2
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0144-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-232R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0142-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-52R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model - 50 Hertz					

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-53R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0200-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Standard Model - 50 Hertz			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Standard Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-2R SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

F10

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-232R SPEC 1N
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0336-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-232R SPEC 1P
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0336-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-52R SPEC 1P
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model - 50 Hertz					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-53R SPEC 1P
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0200-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model - 50 Hertz					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC IP
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-2R SPEC 1P
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-53R SPEC 1R
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 6
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0363

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model - 50 Hertz					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 3.0MAJ-1R SPEC 1R
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 6
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0364-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 3.0MAJ-2R SPEC 1R
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 6
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Standard Model					

Dated Dec. 1, 1978

Revised G6

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R **SPEC** 96M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 **KEY NO.** 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Low Oil Pressure Switch			
308-0097	1	Switch, Toggle - Momentary			
309-0237	1	Switch, Low Oil Pressure			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R **SPEC** 96P
FOR STANDARD PARTS REFER TO CATALOG 933-0220 **KEY NO.** 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Low Oil Pressure Switch			
308-0097	1	Switch, Toggle - Momentary			
309-0237	1	Switch, Low Oil Pressure			

Dated Dec. 1, 1978

Revised —

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 1.5MAJ-232R SPEC 541H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0142

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Battery Charging Model			
160-0744	1	Flywheel - With V Belt Groove			
190-0235	1	Pulley, V Belt Drive			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 541J
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0140

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
160-0744	1	Flywheel - With V Belt Groove			
190-0235	1	Pulley, V Belt Drive			

Dated Dec. 1, 1978

Revised

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-1R SPEC 1234J
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0199

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.5MAJ-3R SPEC 2068H
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 610-0202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
*City Water Cooling System Gas Fuel System					
* - Modified By Removal Of Water Pump Impeller.					

Dated Dec. 1, 1978

Revised _____

Page 1 of 1

SPECIAL PARTS LIST FOR MODEL 2.0MAJ-53R SPEC 6857M
FOR STANDARD PARTS REFER TO CATALOG 933-0220 KEY NO. 5
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0319-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
309-0237	1	Low Oil Pressure Switch Switch, Low Oil Pressure			

Dated Dec. 1, 1978

Revised _____

Page 1 of 1